

DR. MANDOUH

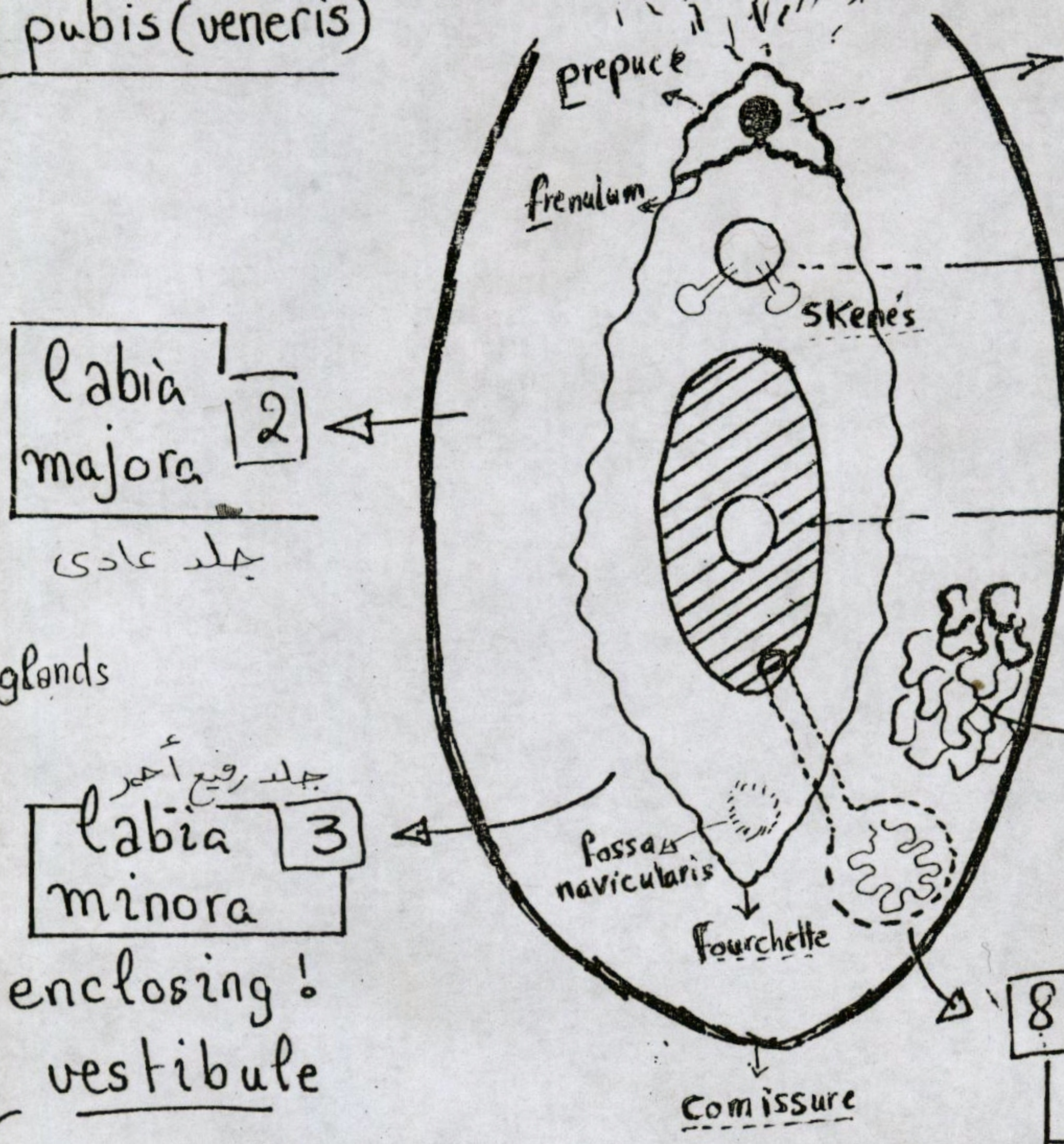
A₃ GYNA REVISION PAPERS
2010



→ cushion during intercourse pubis (veneris)

- 2 elliptical skin folds
- ↓
- Keratinized
 - labial fat
 - hair follicles
 - sebaceous glands
 - sweat (apocrine) glands

- 2 elliptical modified skin
- no Keratin
 - no fat
 - no hair



4 clitoris 2.5-3 cm

5 ext. ureth. meatus 3-4 cm

6 Hymen

7 vestibular bulb

8 Bartholin's gland

Crura
body
head
suspensory lig.
2 corpora cavernosa

Transitional epith. except distal 1/3 → st.

st. sq. epith. remnants: "Carunculae myrtiformis" after defloration

2 collections of vascular C.T.

in its lower 1/3 lies

enclosing! vestibule

- ext. ureth. meatus
- vag. orifice (introitus)
- Barth. ducts

Anatomy → Significance:

- size of a pea
- gland: racemose
- duct: 2cm (transit. epith.)
- Bartholinitis (acute/chronic)
- Barth. cyst
- Adenocr. of Barth. (vulval surgery)

Q Enumerate?

Vulva

- Bl. supply
 - Internal pudendal a. ✓
 - ± sup. & deep ext. pud. (femoral)
- Nerve supply
 - Pudendal nerve ✓
 - ± perineal br. of lat. cut. n. of thigh
 - ilio-inguinal
 - hypogastric
 - genital br. of genito-femoral n.
- Lymphatics = groin LN.

Vagina

- Bl. supply (very rich)
 - uterine → descending cx-vaginal circular a. of 1 cx → ant. & post. azygous
 - IIA → middle rectal, vaginal (Inf. vesic)
 - Int. pud. → inferior rectal
- Nerve supply
 - upper part (insensitive) ----- lower 1/4 (pudendal)
- Lymphatics
 - upper part ----- lower 1/4 (with vulva)

Female genital mutilation

Def. All procedures that involve partial / total removal of ext. genit. for cultural non-therapeutic reasons

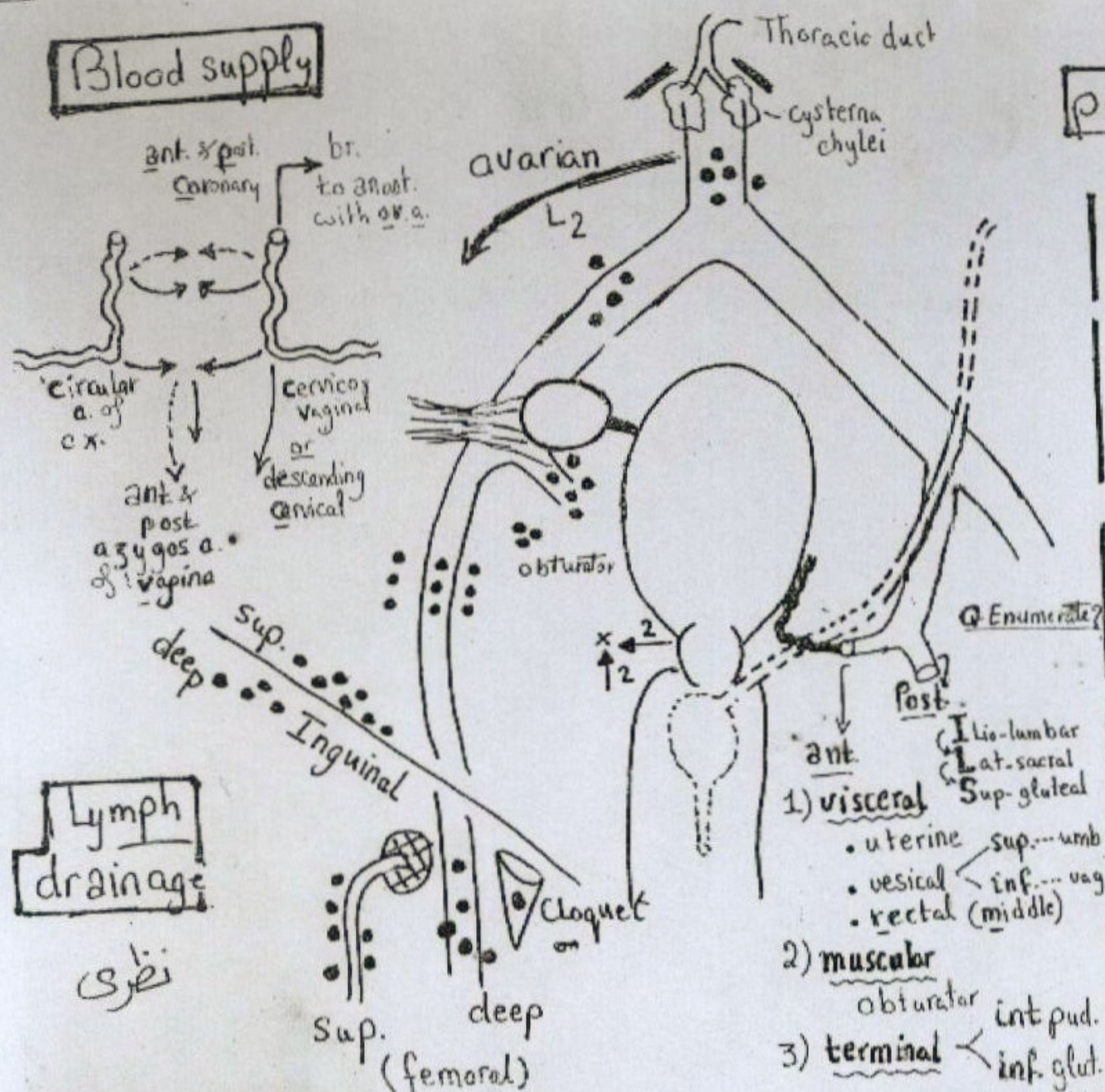
- It is still practiced in Egypt, Sudan
 - tradition?!
 - african?!
 - religious?!
- It is totally condemned by WHO except
 - Cosmetic
 - dyspareunia d. hypertrop
 - Nymphomania

types

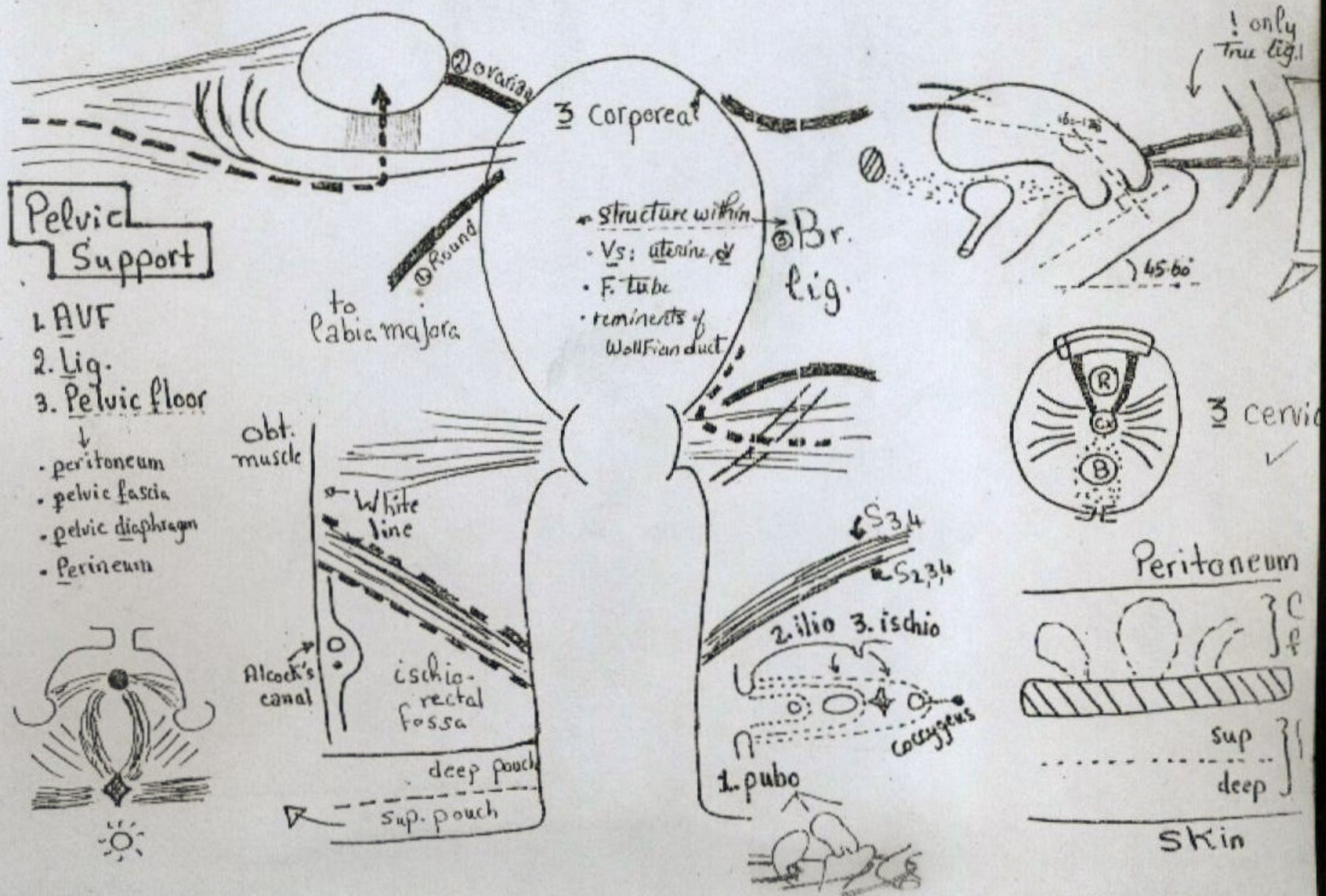
- I → prepuce or ! whole clitoris
- II → + labia minora
- III → all ! ext. genit. + narrowing of introitus } Sudanese
- IV → unclassified e.g. tattoo, piercing

Comp.

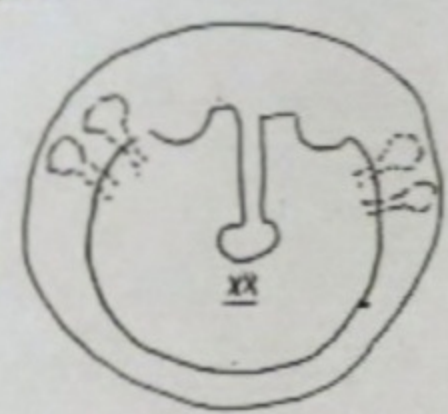
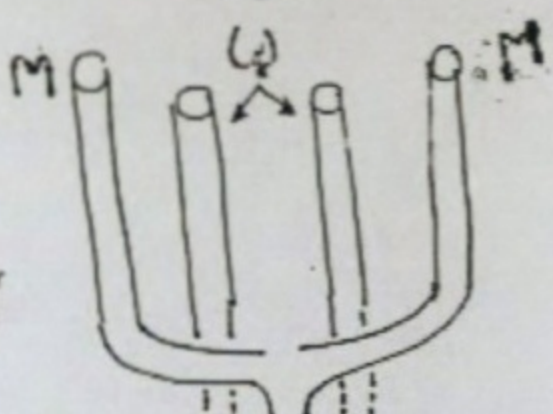
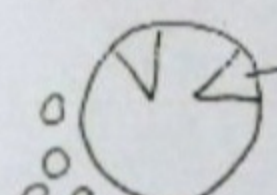
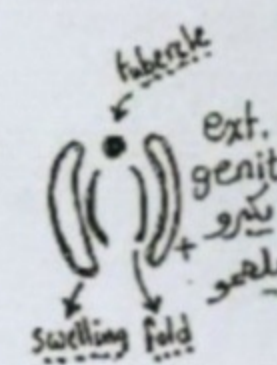
- Immediate
 - severe pain
 - hge, inf.
 - injury (urethra)
- Later on
 - Psychological
 - Retention dermoid
 - obst. labor (fibrosis)
 - Recurrent U.T.I



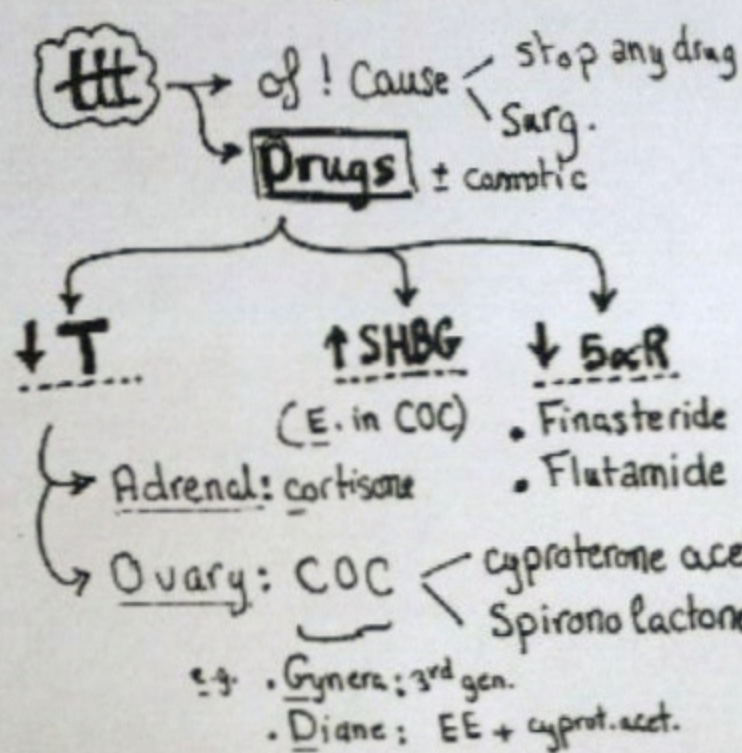
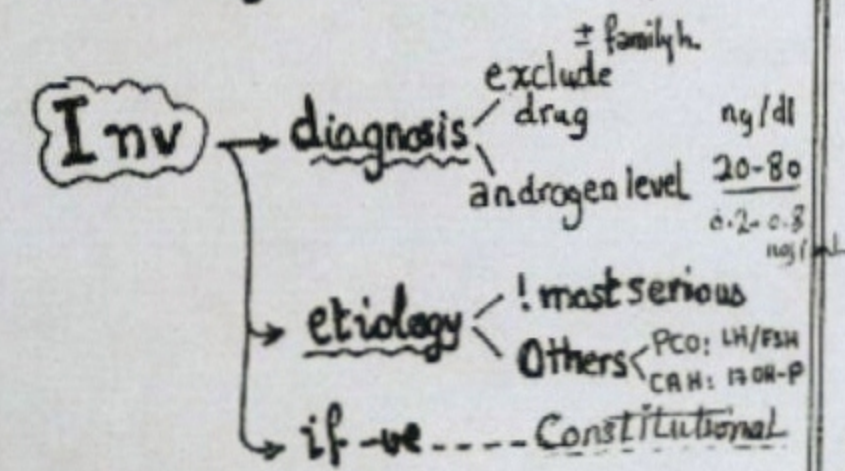
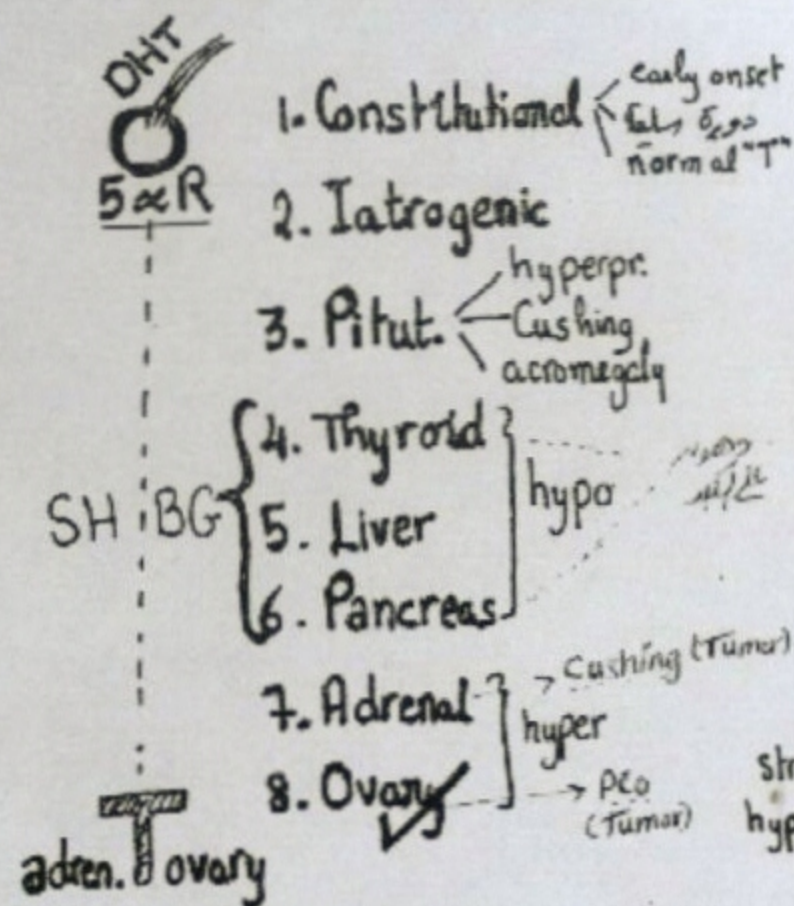
④ Surface anatomy
 ⑤ Sites of possible injury
 1. Hysterectomy (abd. vag.)
 2. Pelvic LN
 3. Bilat. Int. iliac a. lig
 4. Adenectomy
 ⑥ Injury is ↑ed by
 • Distorted anatomy $\begin{cases} \text{Cong} \\ \text{acquired} \end{cases}$
 • Rapid blind clamping
 ⑦ Injury is ↓ed by
 • Preoperative: IVP
 • Intraoperative: clamp should be $\begin{cases} \text{near luteal} \\ \text{under visio} \end{cases}$
 ⑧ Injury $\begin{cases} \text{direct / indirect} \\ \text{fistula / obstruct} \end{cases}$



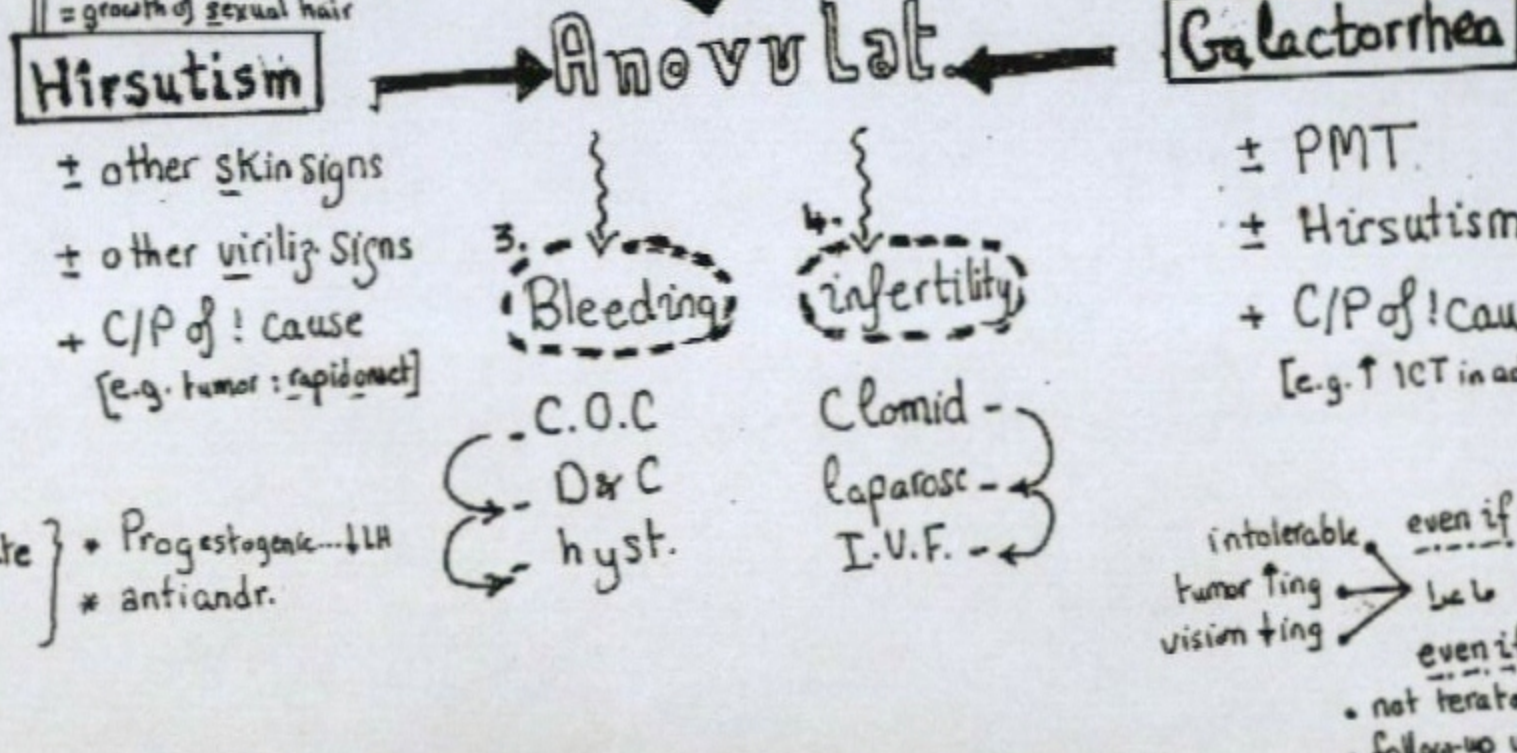
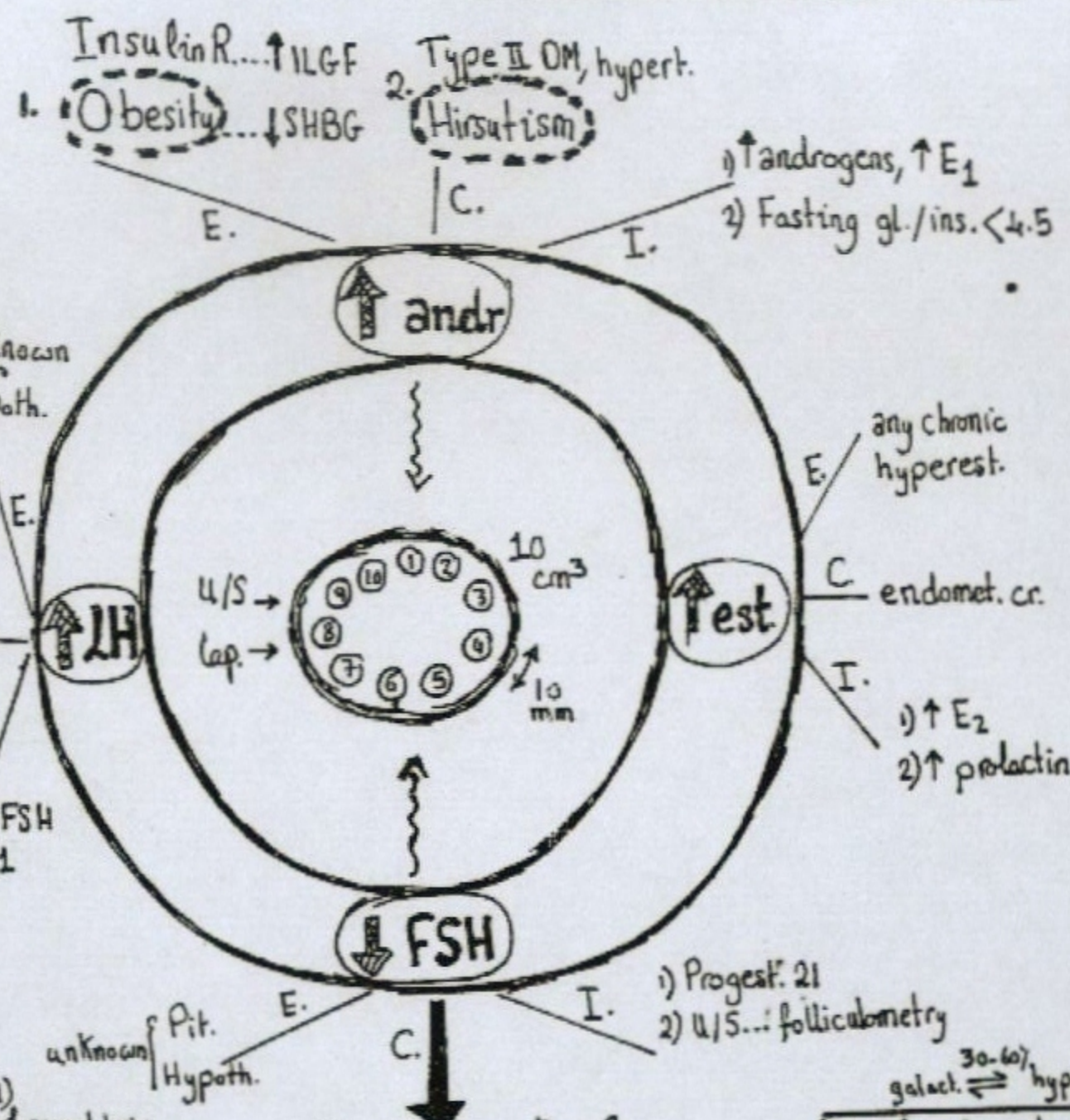
	Hypothalamus	Pituitary	Ovary	Uterus	Path. Amenorrhea	Phys.
Cong.	* <u>Froehlich</u> * <u>Laurence Moon Biedl</u> * <u>Kallmann</u>	* <u>Levi-Lorain</u> ↓ <u>short, obese</u> * <u>Cong. Empty Sella</u>	* <u>Agenesis</u> * <u>Dysgenesis (Turner)</u> * <u>Test. fem.</u>	* <u>Aplasia, hypoplasia</u> ↓ <u>Mullerian agenesis</u>	<u>1^{ry} amen.</u> ↓ Cryptomen. • <u>Constitutional</u> • <u>ov. dysgenesis</u> • <u>Mullerian agenesis</u> • <u>TF</u>	<u>True</u> • <u>imp hymen</u> • <u>Vag. septum</u> • <u>ex. atresia</u> <u>False</u> • <u>Preg. & lactation</u> ↓ <u>< puberty > menop.</u>
Tr.	- <u>Fracture base of skull</u>		- <u>cophrectomy</u> (medical/surgical/irrad.)	* <u>Asherman synd.</u>	<u>2^{ry} amen.</u>	<u>Assessment</u>
Infl.	- <u>Meningitis, encephalitis</u>		- <u>Mumps, T.B.</u>	min. mod. severe 		<u>History</u> <u>Exam</u> <u>Inv.</u>
Neop.	- <u>Destructive tumors</u>	* <u>Destructive</u> * <u>Secretory</u> - <u>Prolactin</u> - <u>GH</u> - <u>cortisol</u>	* <u>Destructive</u> * <u>Secretory</u> - <u>Est. tumors</u> - <u>And. tumors</u> (E. An.) - <u>P.C.O.</u>	hypomen habit. abortion - <u>PT</u> - <u>PL</u> - <u>accreta</u> - <u>Amen</u> - <u>Infert.</u>		<u>Cyn</u> • <u>Anovulation</u> • <u>Hyperand</u> • <u>Hyperprol.</u> • <u>Thyroid</u> • <u>Adrenal</u> • <u>GH</u> • <u>D.M.</u>
Misc.	* <u>Psychological</u> - <u>severe stress</u> - <u>Anorexia nervosa</u> - <u>Bulimia</u> - <u>Pseudocyesis</u> * <u>Hyperprolact.</u> of hypoth. origin (X P.H.F) * <u>Postpill amen.</u>	* <u>Empty Sella</u> (Cong.) (after surg.) * <u>Simmond</u> panhypopit. * <u>Sheehan</u> after severe hge			short period am. followed by PPI infertility hirsutism galactorrhea • <u>End.</u> • <u>Thyroid</u> • <u>Adrenal</u> • <u>GH</u> • <u>D.M.</u>	• <u>Br.</u> • <u>ut.</u> • <u>signs of viriliz.</u> • <u>squeeze breast</u> • <u>Tall/short</u> • <u>thin/obese</u> • <u>FSH, LH</u>
General	* <u>Endocrine</u> - <u>thyroid</u> - <u>adrenal</u> - <u>acromegaly</u>	* <u>General debilitating disease</u>	* <u>Drugs</u> - <u>steroids</u> - <u>androgens</u> - <u>C.O.C</u> - <u>hyperprolact</u>	hormones: - <u>steroids</u> - <u>androgens</u> - <u>C.O.C</u> - <u>hyperprolact</u>	• <u>local</u> • <u>2^{ry} gross pathology</u> • <u>pregnant</u> • <u>Severe dis.</u>	• <u>ovary</u> (hyperGn hypogonad) • <u>Pit, hyp</u> (hypogon hypogon)

	Turner \$	M. agenesis	T.F.S.	Androgen Insensitivity لاستى 1 ^{ry} amen. True ← False
Etiology	Absent <u>X</u> chrom. → failure of oocyte migration	Absent development of M. ducts: tubes, body, cx, upper 1/5 vag.	X-linked recessive → absent receptors to androgen (end organ insensitivity)	
Karyotype	45 X0 ^{m.b. mosaic} + 46 XX or 46 XY	46 XX	46 XY	
Phenotype	• short < 150 cm, web neck • shield chest • corotation of aorta, cub. vulva	Normal ♀	Normal & beautiful 1. tall 2. well developed Br. 3. No Axillary or Pubic Hair	
Gonad	Streak	Ovary	Testis $\left\{ \begin{array}{l} \text{intra-abd.} \\ \text{in a hernia} \\ \text{in labia} \end{array} \right.$	* If testis
Hormones:-	no E ₂	E ₂	Normal ♂ $\left\{ \begin{array}{l} \text{test. } 300 \text{ ng/dl} \\ \text{E}_2 \text{ } 30 \text{ pg/mL} \end{array} \right.$	
1) int. genit.	infantile	No uterus	No uterus	test. (Wolf-duct only)
2) ext. genit.	infantile	vag. pouch	vag. pouch	testic. descent
3) 2 ^{ry} SCC	infantile	Breasts	Breasts	
III	• cyclic $\left\{ \begin{array}{l} \text{P} \dots \text{دوره} \\ \text{E} \dots \text{↑ Br., ut.} \end{array} \right.$ N.B. not < 13 yrs ⊕ GH (8cm) • No oophrectomy except if y chr. → malig. risk 25% 'Dysgerminoma'	• Vaginoplasty $\left\{ \begin{array}{l} \text{vag.} \quad \text{abd.} \quad \text{lap.} \\ \vdots \quad \vdots \quad \vdots \\ \text{McIndoe} \quad \text{Vachetti} \end{array} \right.$ vaginal coloplasty	• Gonadectomy must be done (18 yr) $\left\{ \begin{array}{l} \text{Breast} \\ \text{tall} \end{array} \right.$ • ERT (no prog.) no uterus • vaginoplasty	If ovaries No MIF → M. ducts persists No test. → Wolf. ducts disappear

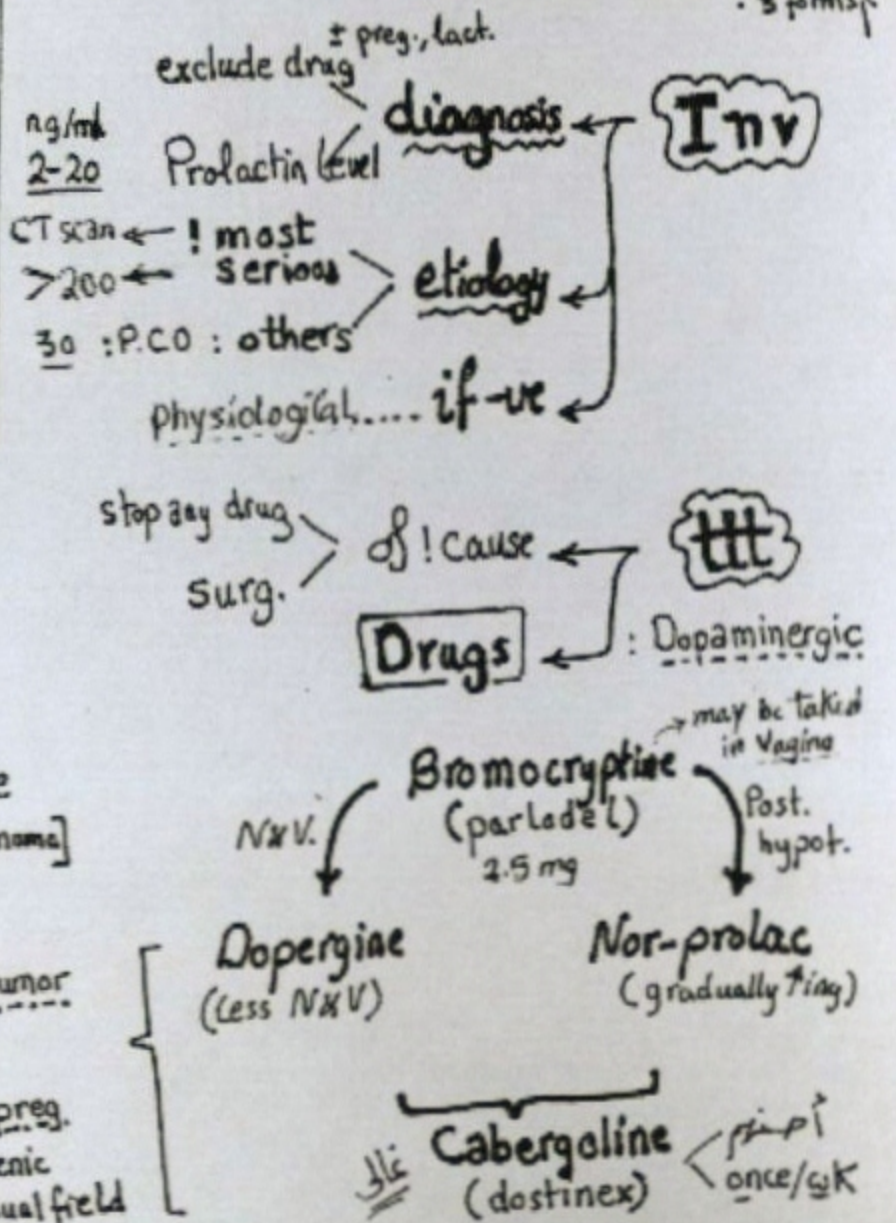
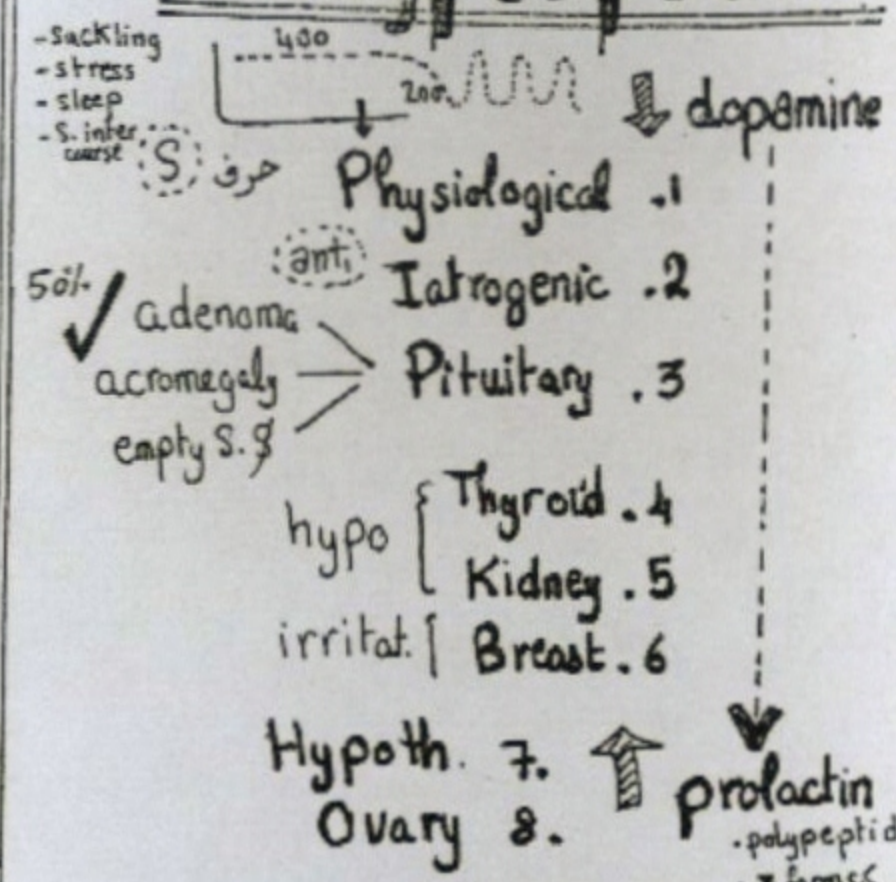
Hyperandr.



PCO 5%



Hyperprolact



Etiology

- S.I.
 - 18 yrs
 - multiple
 - non-circum.
- Virus
 - HPV ✓
 - HSV
 - HIV
- Smoking

Inv. 1 Pap smear

Ayre's wooden spatula

Techn.

timing

- 1 yr → high risk
- 3 yrs: others

2 Colposcope

- epithelium
- vascularity
- acetic acid
- Schiller I2

3 Biopsy

Punch

- colposcopic
- × Cone
- ✓ LLETZ

III

HPV + I 18yr

HG.SIL + II + III

Conserv.

- Conization
- Cauterization
- LLETZ

Hyst.

Follow up

- Pap
- Colposcope

strictly

Pathology

90% ectocx
sq. cell cr

10% endocx
adenocr.

A

Contraind.

1. Pelvic

Infectn
 Adhesion
 Pathology

2. Young pts

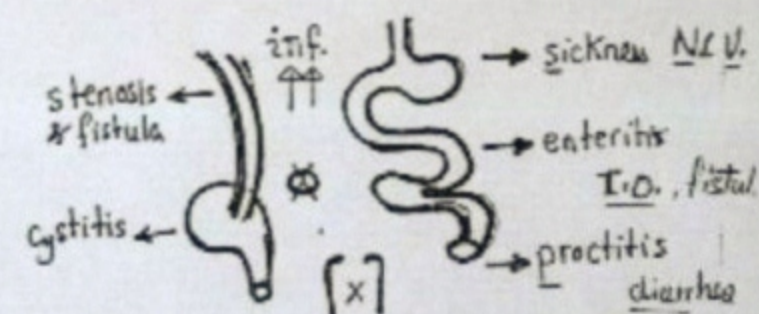
3. adenocarcinoma

Adv.

less
M. x M.

Disadv.

* Early → DNA dest. (Rapidly di. Cells e.g. Hair)
 * Late → EAO



Radiotherapy

Werthiame

II b
III

Ia2 extended

Ia1 simple

Ib1

Ib2

Adv.

- avoid disadv. of RT
- Better psychologically
- Suitable 4 Young age

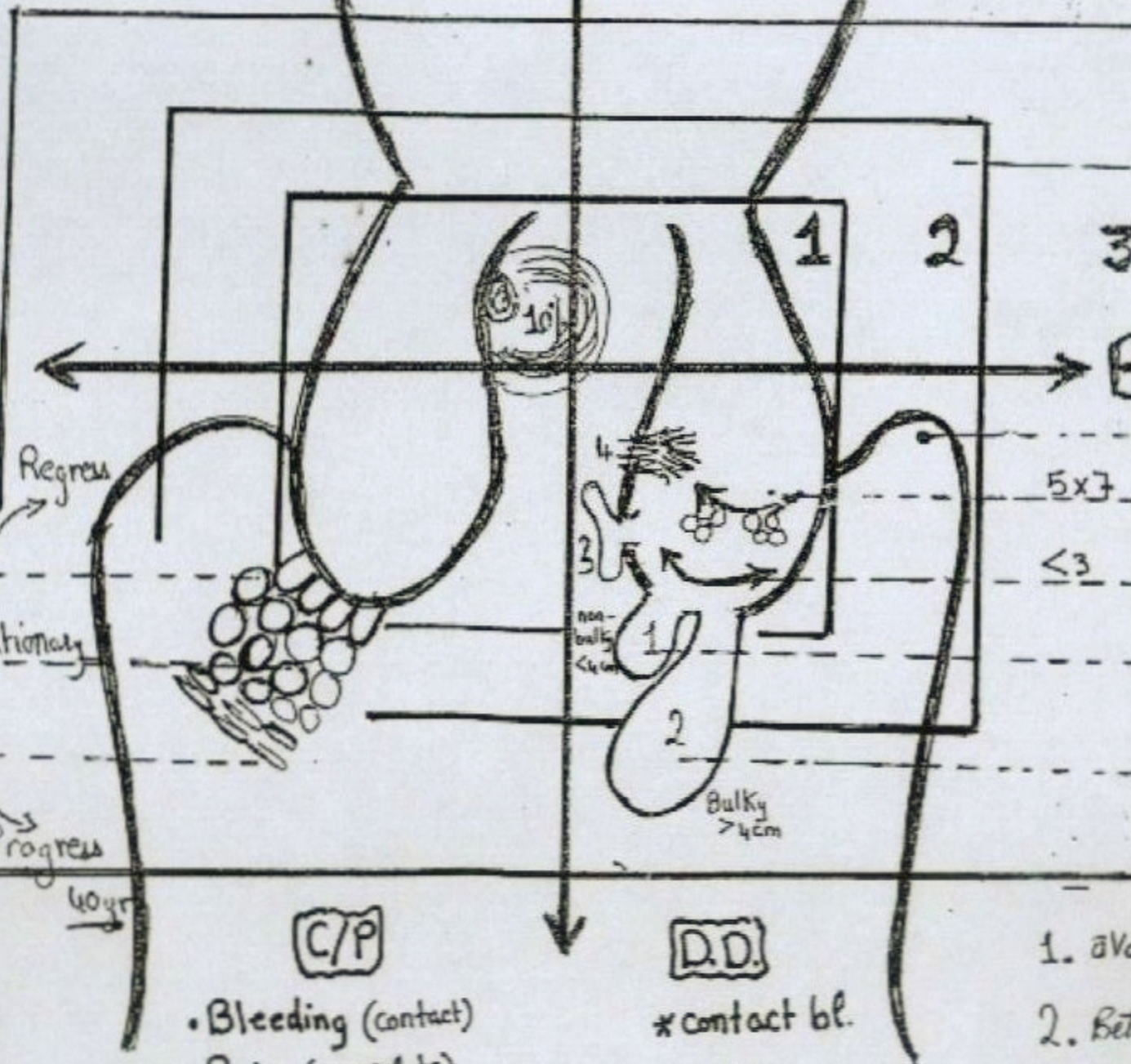
Disadv.

* Early

- hge; massive inf.

 * Late

- lymphocyst
- wound dehiscence



C/P

- Bleeding (contact)
- Pain (rare & late)
- Discharge (serosang.)
- Swelling
 - 1] nodule
 - 2] cauliflower
 - 3] malig. ulcer
 - 4] infiltrating

D.D.

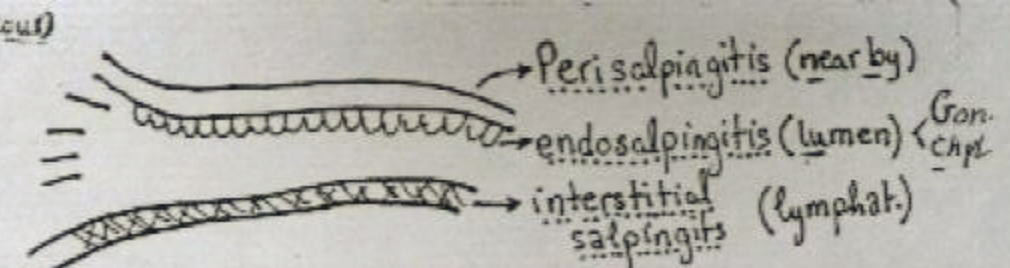
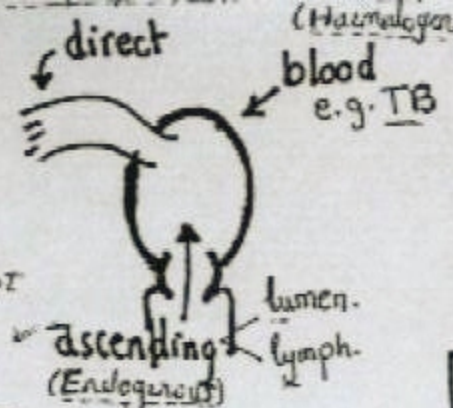
- * contact bl.
- * ulcers
- * Polyps
- * Barrel shaped cx

1. **Org.** Non-specific staph strept
- **STDs** { monilia, TV, gon., chlam., viruses, curia, gon., chlam., ... }
- **chr. gr. dis.** TB

2. **PdP** • obst. < labor abortion
- gyna < D&C IUCO [med by]
- **S.I.** Barrier COC

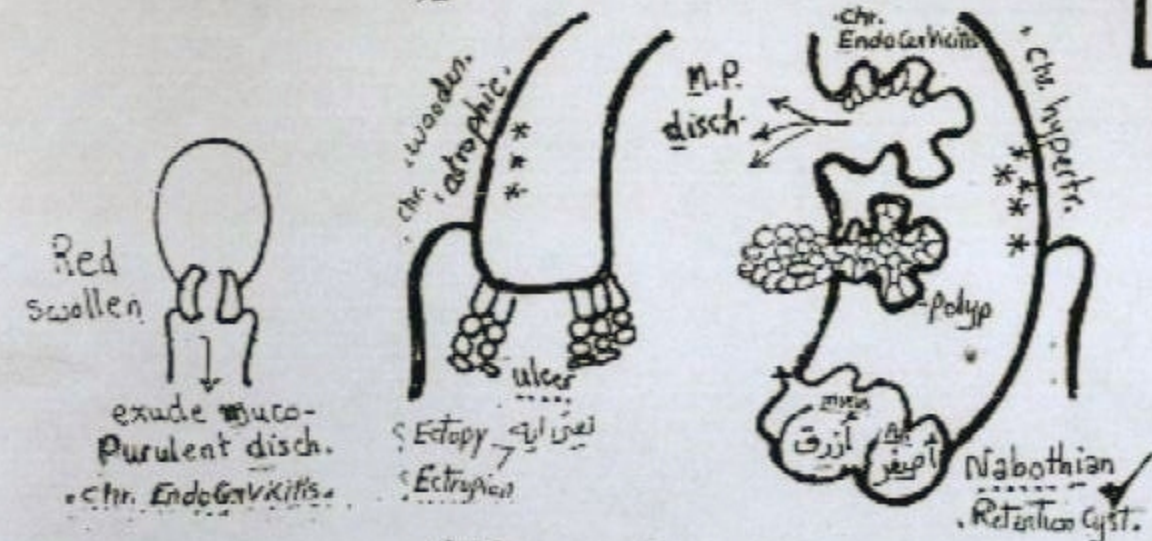
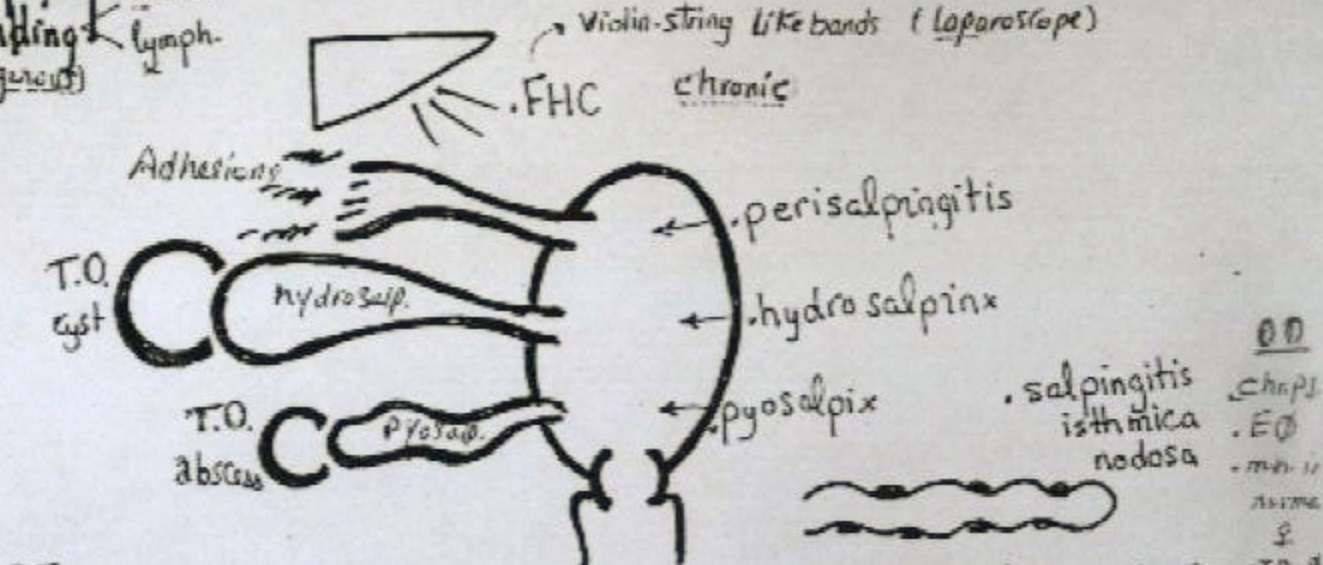
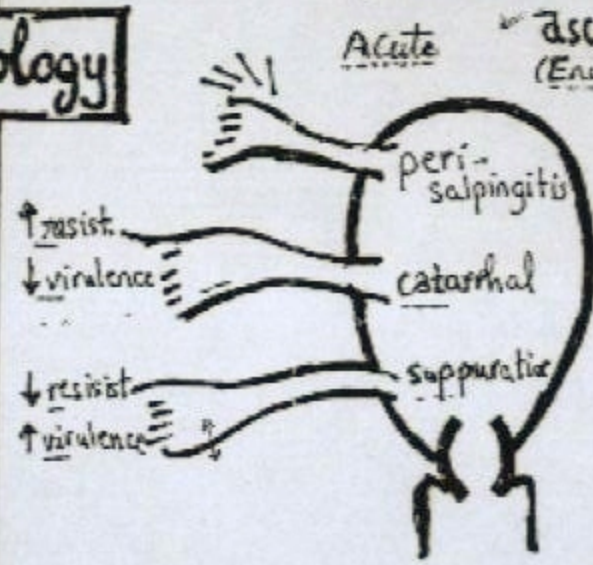
Etiology

3. Route



Pathology

- types { Acute (ch-G), Chronic (on top of acute chr. from start)



C/P

- FAHM-R
- Cong. sympt. { pain 3cm above mid-ing. point (Tubal point), bl. disch. }
- tender max. of cx
- tender adnexae

- toxic look ill. health
- Cong. sympt.
- T.O. mass (complex), fixed RVF + ex motion tend
- history of { infertility, ectopic, previous acute PID, TB, ... }

Comp.

- chronic { 40% gonorrhea (more acute sympt., early diagnosed), 60% chlamydia (more asympt., damage later on) }

- Criteria { all major: lower abd., adnexal, cx motion, U/S → adnexal mass (x follow up! size), Temp > 38, ↑ TLC, ESR, mass (PV, US) (rapid onset), orgopus (swab, laparosc.) }
- one minor: U/S → adnexal mass (x follow up! size), if diagnosis is uncertain, Laparoscope if no response in 48 hrs

Inv.

- ↑ TLC, ESR, CRP
- cervical swab { chlamydia?!, gonorrhea?!

Tht

proph.

medical

Surgical

1. Avoid: Sexual Promiscuity
2. Aseptic Mang. (L. Lab.)
3. Acute Prompt Diagnosis
1. Antibiotics
2. Anti pyr.
3. Analg.

- Cautery { electro, cryo, chemical, Laser }
- Surgery { Conization, amputation, hysterectomy }

Proph.

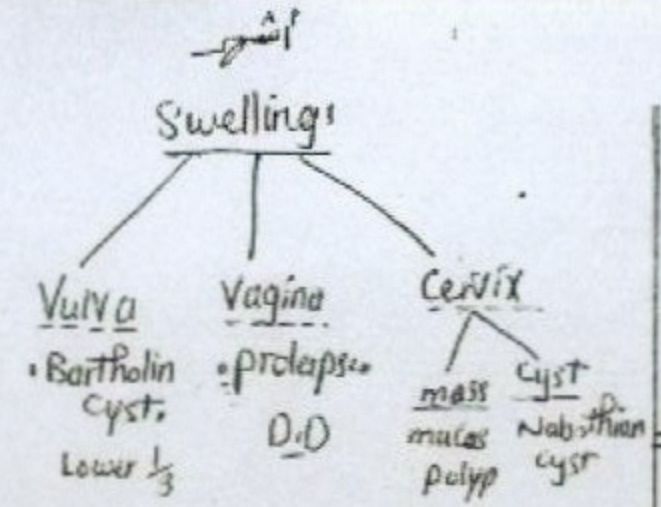
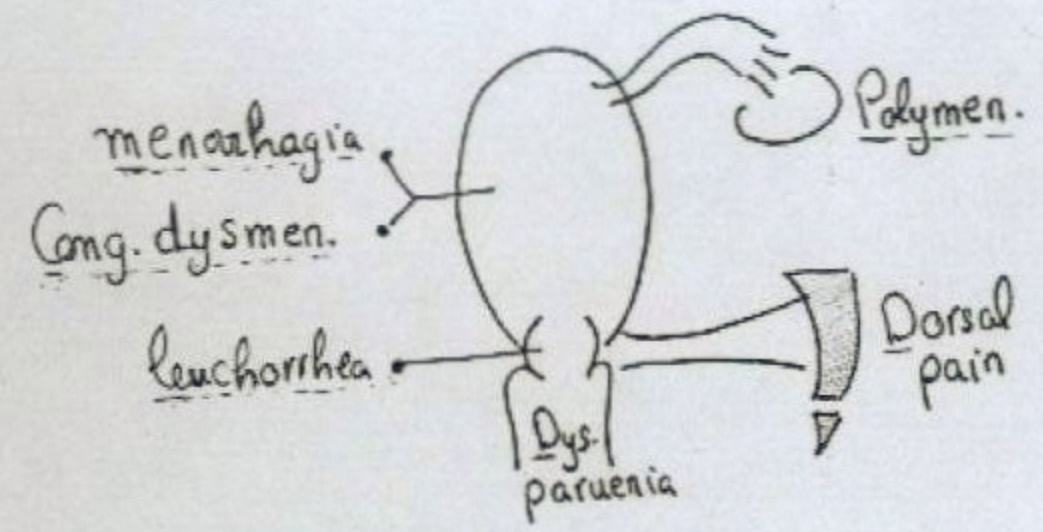
medical

Surgical

1. Avoid
2. Aseptic
3. Acute
1. Anti pyretic
2. Analgesic
3. Antibiotic (look CDC)

- pelvic abscess → post. colpotomy (Intestine ...)
- small T.O. abscess → aspiration → U/S Laparosc. → spread
- Laparotomy { TAH+BSO, Pelvic clearance, adnexectomy, Tuboplasty usually → fails }

Congestive Symptoms



D.D. of cervicitis

written

- Causes of leucorrhoea: true: Excess of normal discharge; path. Infected discharge (organisms)
- Causes of contact bl.: tumors, infection
- Causes of cervical ectopy

Def: Replacement by columnar epith while ulcer erosion means discont. of epith. denudation

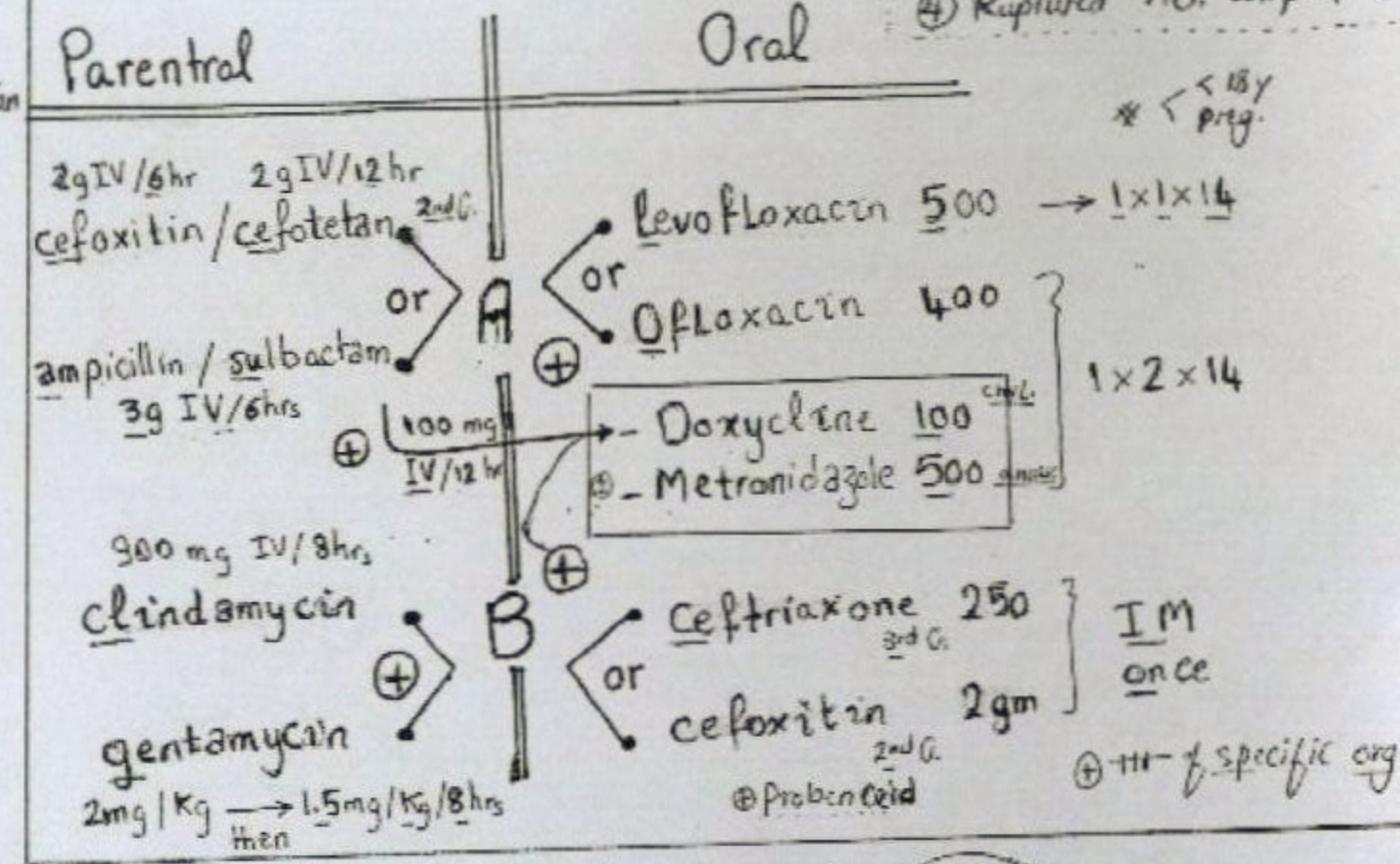
etiology: cervicitis; Congenital: persistence of vag. col. epith.; hormonal: ↑ H. (أشهر)

Sympt.: mucoid sec. sometimes: Contact bl. inv. as CIN (similar Colposcope Biopsy)

Sign: 1] Simple (flat): bright red area; 2] Papillary; 3] Follicular

Antibiotic acc. to C&S..... if failed: cauterization

CDC antibiotic regimen for PID

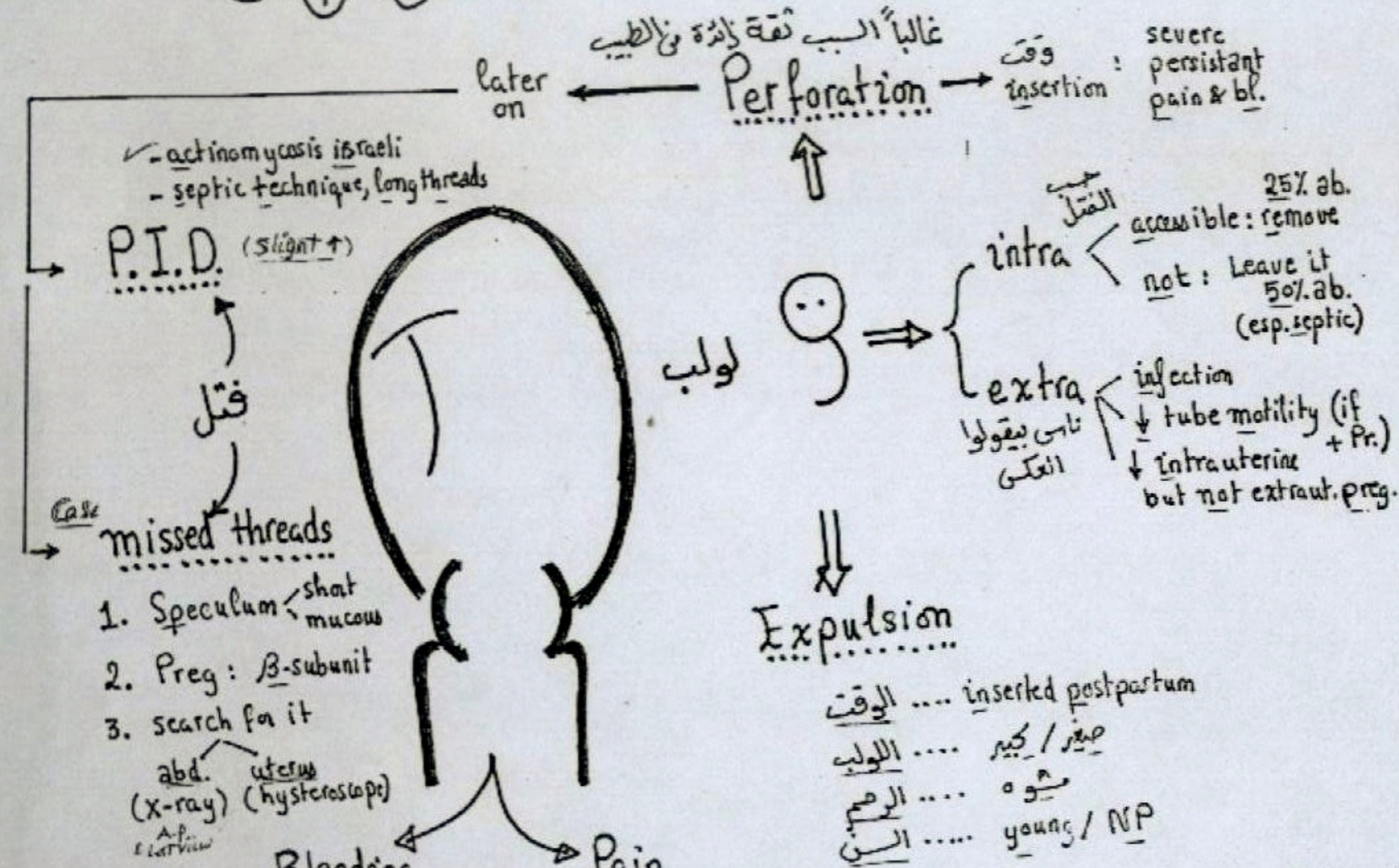


D.D. of Cervical Motion Tenderness: Ectopic P.I.D.

Care 3/27

- electro: تفريق الأنسجة ناع \leftarrow healing by Fibrosis 2ry Infectn
- cryo: → profuse discharge
- chemical: فوسفات Ferguson speculum Zn Cl₂ Ag NO₃
- Laser: تبييض (min. fibrosis)

Comp. of IUCD 7"p"



- Post-insertion → reassure
- مع البورة → menorrhagia (exclude path.)
- then → reassure
- ... exclude perf.
- ... sp. dysm. accepted (otherwise...?)

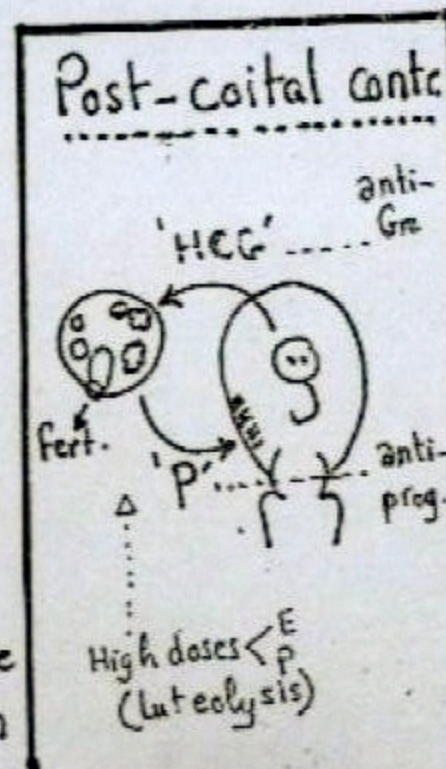
Alerting symptoms

missed $\left\{ \begin{array}{l} \text{period threads} \\ \text{pain} \\ \text{bleeding} \\ \text{discharge} \end{array} \right.$

severe

IUCD + pain: PID
Preg $\left\{ \begin{array}{l} \text{thr. ab.} \\ \text{dist. ectopic} \\ \text{perforation} \end{array} \right.$

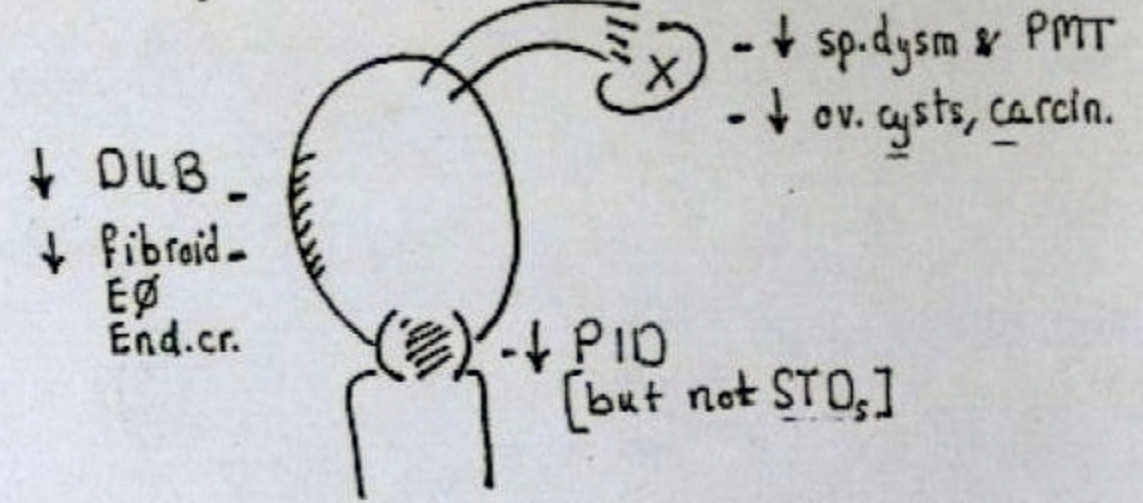
Insertion { Push out... perforation } threads are cut 3 cm
Withdrawal... آمن



C.O.C.

Non-contraceptive benefits

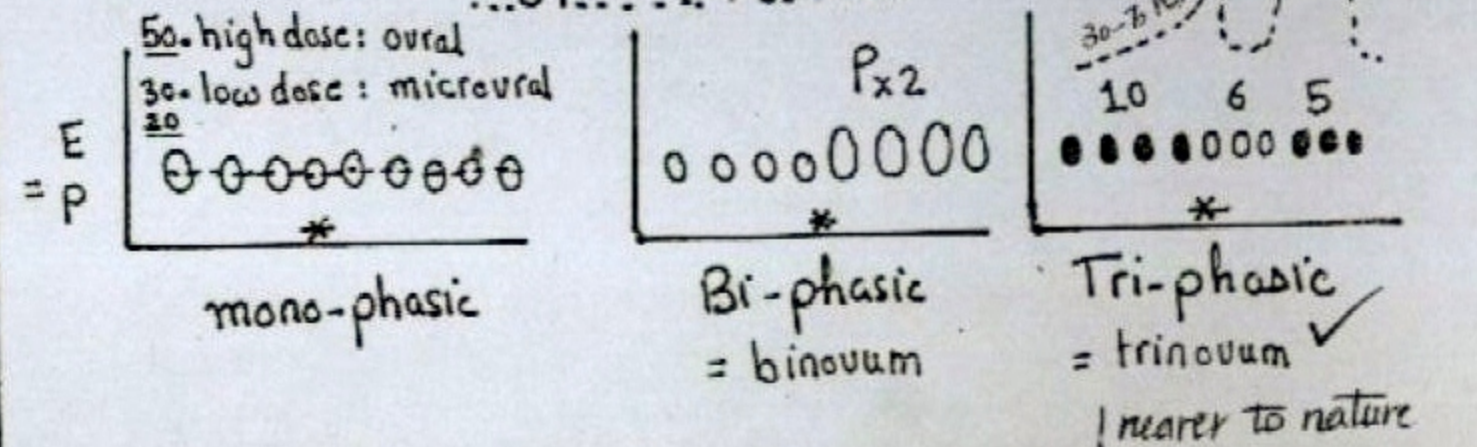
suppression of Lactation



C.O.C. & tumors

- 3 ↓ (slight)
- fibroid, end.cr, E \emptyset
- ovarian cancer
- Benign br. lesions
- cr. cx
- hepatocellular adenoma
- malign. br. lesions

Types of COC



Missed pills

منيتى قرص... خذى قرص... وبعد كده قرص فى ميعادك عادى

منيتى قرصين... خذى قرصين... والمرة الجاية فيقى خذى قرصين وبعد كده عادى

	Natural Physiolog.	Mech. & chemical	IUCD	C.O.C.	P.O.P.	Injectable	Surgical	Emerg.
Types	Safe period	15x3.5 0.02-0.07	Inert Medicated	E. used → EE. (mestranol) P. → 1st estrane 2nd Levonorgestrel 3rd Mestranol, gynae, clat	(Minipill) Micronor 300ug Microlat 30ug Exluton (lynestrenol)	3m DMPA 150 mg Norethisterone benethate 200mg 1m Cyclofen Mesygyne	♂ bil. vasectomy under local anes wait for 70 days till 2-ve semen analysis ♀ sterilization	Mech.
Mech. of action	Lactational amenorrhea efficacy is ↑ to 90% by * Amenorrhea * Reg. feeding * no extra food	Disadv. for all - F.R. 3-14/Hwy - Allergy - Difficult use - Better combined with chemical - Diaph → cystitis	1. Aseptic endomet 2. ↑ PG e.g. Lippes Loop ↓ 1-2 ↓ cheap long use reversible	as in POP e.g. * sperm * endomet * zygote (Levonorgestrel) → CuT380A → Multiload ↓ No local syst. effects ↓ DUB end. hyper ↓ Not in Wilson's amen. ↓ undiagnosed PID ↓ 1. perforation 2. intra extra 3. ↓ expulsion Bl. → Pain 1. What are! alerting symptoms 2. D.O. of pain + IUCD 3. How to insert an IUCD.	Monophasic Biphasic Triphasic P. → 1st E. → 2nd P. → 3rd P. Itt! 0.1/Hwy Side effect Headache mood ch. engorg. E. → E: thromb. P: Atherosc. HTN N&V. ↑ reg. cholesterol & gall stones I.R. → E+P → DM P. → weight gain hypomen. amenorrhea spotting B.T.B. * Relation of C.O.C. to tumors. * How to manage missed pill.	only Taken daily not delayed used in {main is by: mech. thick mucus}	E. was added to ↓ menst. side effects as C.O.C. 99% used in non-contr. + benefits as in C.O.C. Disadv. x } ثقيلة not readily reversible ↓ BMD esp. irreg. esp. amenorrhea 12m or 11m.	Laparoscopy Laparot. (Ameyoy) Post partum C.S. ✓ V.O. x indication Permanent social >35yrs, failed other methods medical v. weak scar, serious illness Contra-indic. Young uncertain couple with marital/mental probl. Disadv. ① Gyna Jels Post-tubal Ligation ② Obst Jels 0-1 - faulty tech 0-4 - recanaliz. - was preg.
F.R.	"Pearl index" / Hwy							
Adv.								
Disadv.								

Endomet

"1"

Cervix

"3"

Ovary

"2"

1. Age

>60 (related to E₁) < white low parity

2. Etiology

unopposed ... menst ccc
hyper E ... endogenous
... exogenous

3. Path

mac
mic

simple 1%
complex 3%
atypical x10
Adenocarcinoma
Localized
diffuse

4. Spread

mainly direct spread
may be by lymphatics
perforation
cx
malig. fist.

5. C/P

Sympt

Post menop. bleeding (however atr. end. polypi are commoner)

G.

CCS ... Obese + D.M. + HTN

A.

only if ... pyometra or associated fibroid

L.

small uterus ± myohyperplasia

6. Inv.

Screen

TVUS ... 4-5 mm
fractional D&C

diag

Biopsy ...
hysteroscope
Pipel

7. Cause of death

upward perf. & peritonitis

8. Staging

III

Surgical staging
I TAH + BSO
II
III Tele + brachy

9. Prognosis

! best : early presented : Ia grade I

CIN 35-40 ... 5-15 ... inv. 50 (multipara)

18 yr
SI multiple part. uncircumcised
STD HPV HIV

Sq. cell cr.
1. Nodule
2. Caulif. mass
3. ulcer
4. infiltrat.
TZ
90%
10%
adenocarcinoma
Nodule ... barrel shaped cervix

mainly lymphatic
1st relay
cx, ureteric parametrial
2nd
iliac
3rd
Parametrial

Contact bleeding

uremia
Pyometra
suspicious cx

Pap smear (Ayre's wooden spatula)

Colposcopy ... biopsy
punch, colposcopic
Cone, LEEP

Uremia ...

Clinical staging
A
B
Ia₁ ... simple hyst.
Ia₂ ... extended
Ib
IIa ... Radical (Wertheim)
Radiotherapy

20% < 40 ... 60 > 20% (low parity)

* Aging
* fam. & genetic
* ovulation
BRCA
Lynch II
↓ by C.O.C.

(Non-neoplastic) (Neoplastic)

Funct. +
3
3
paracov. cyst
Theca lut.
preg. luteoma
1ry
Common epith
germ cell
sex cord
2ry
= Kruken.

mainly seeding =
implantation
transcoelomic

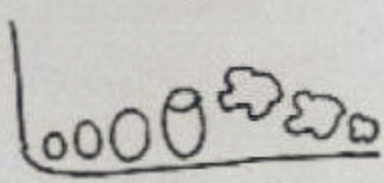
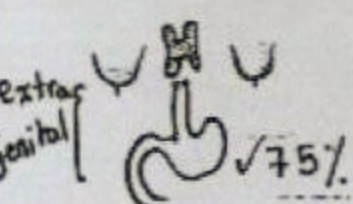
Vague 3d
dyspepsia
discomfort
distension
± BL
congestion
secondary
estrogen
± 2 men.
cachexia
destruction
androgen

H. effect
thyrotoxic virilization
Ascites ... omental cake ... sister M. Joseph nod.
Adnexal ... pelviabd ... U.V. pouch ... D. pouch swelling
Merg & (fibroma)

difficult
Periodic exam.
tumor markers
TVUS + Doppler
Antigens
enzymes
hormones

Exploratory laparotomy
int. obstruction ...
1. Surg. stag.
2. Biopsy
3. Ht

Surg.
TAH + BSO
omentectomy
L.N.
+ optim. debulking
Chemoth.
epith ... CAP
germ ... BEP
! worst : late presented : stage

Non-neop.	70-80% Common epith.	Primary Germ cell	10% Functioning Sex-cord	Secondary
Functional  follicular → C.L. cyst - Anovulation - < 6cm - follow up ± COC ③ PCO EO TOA ③ Paraovarian cyst - Wolfian remnant - pr. effect → excision • Theca lutein cyst - obst. - VM, Rh, DM, twin - Gyn. - charic., OHSS • Pregnancy luteoma	(Mullerian) • may be B.. BLM.. M 1. Serous * small, uniloc. * psammoma bodies ! more malign. ! more:- 2. Mucinous * large, multiloc. * rupture → pseudomyx. perit. 3. Endometrioid * chocolate cyst * post. in D.p. (Wolffian) 4. Brenner secretes "E" 5. Mesonephroid clear cell	1. Undiff. (dysg) - ! commonest malign germ cell tumor - esp. in dysgea. gonads - secretes HCG → P. pub. 2. Poorly 3. Well extra-embry. → choriocr HCG Embry. → EST → αFP Solid → immature → mature → monodermal cystic long particle • struma ovar. → T _{3,4} • carcinoid → 5HT	1. (Gran. theca) Gr., Gr. theca } ↑ "E" Pure thecoma } Fibroma → Meig = pl. eff & ascites Pseudo-Merg { Brenner, thecoma, multiple SS.fibr., OHSS 2. (Sertoli Leydig) ↑ "An." < defim. musc. 3. (Gynandroblast) < 1/2 - unilat, small, solid - yellowish - varying malign. potential pure thecoma, fibroma: لا	- 20% of malign. tumors - ! ovary is a common site for metastasis - they reach ! ovary by blood or lymph. spread  extragenital genital typical ✓ atypical (Krukenberg) Bilat... solid... lobular mobile... signet ring
Proph. 1. Periodic exam. 2. Tumor markers ✓ 3. TVUS + Doppler Removal in - > 6cm, persistent - Hyst. if ≥ 45 yrs - High risk (familial)?!	1. Old → TAH & BSO 2. Young Cystectomy Ovariectomy - uncomplicated - comp. - well demarcated - destroying ovary	B M Expl. laparotomy 1. mid line incision 2. perit. cytology 3. inspect & palpate ± biopsy 4. don't allow cyst to rupture I TAH + BSO LN Appendicectomy infra-colic omentect. II III IV - max. debulking - optimum cytored. (< 1cm)	Chemotherapy • epith CAP - carbopl. is less toxic > cispl. - Adriamycin m.b. removed - 2nd line → taxol • germ BEP	
Age. • childhood germ cell • CBP < functional cysts • Dermoid • Postmenop. epith.	S F • Benign Brenner, thecoma, fibroma • Malign. epith, dysgerm., Kruken. • Functioning G-T, S-L	1. Sex cord stroma feminizing or virilizing 2. Germ cell • embry. } B-HCG } αFP • choric, dysg. } + } + • EST } - } + 3. Epith. Brenner	• struma ovarii → T _{3,4} • carcinoid → 5HT	

A

* **Ageing**

40	60	80
↓	↓	↓
15	35	55 / 100,000

→ familial (5%) esp. if 1st deg.
→ Genetic — BRCA
Lynch II

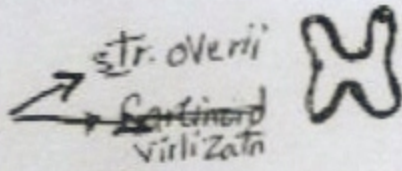
* **Incessant ovulation** مفرغ لا

∴ ↑ by induction ↓ by LAC.

* **Exposure to:** asbestos, talk

General

* H. effect



48 M → PL effusion
B → (Meigs)

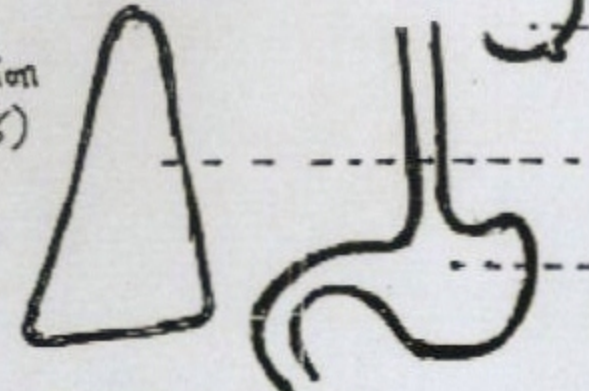
* Cachexia

Abd

* enlarged liver or Kid.

* Ascites, omental cake

* Sister M. Joseph

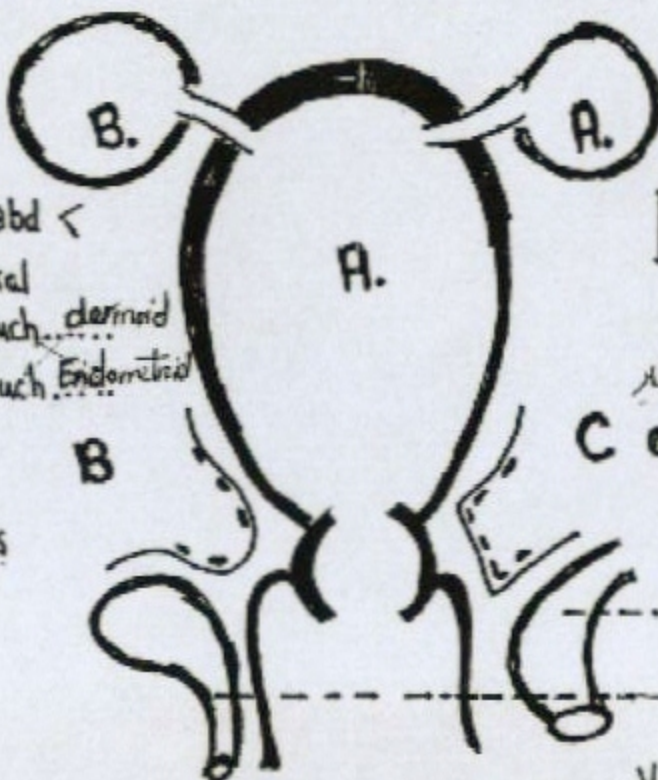


Local

* Mass

- Pelvi-abd <
- adnexal
- D. pouch dermoid
- U.V. pouch Endometrial

* Nodules



Symptoms

Vague presented late 3rd stage

① Swelling

Presented as
3d
• Distension
• Dyspesia
• Discomfort

② Bleeding

→ p. cong.
→ tries to ut.
→ functioning (Est.)
OR Amenorrhea
→ cachexia
→ bilat. destructive

③ Pain

if comp.

④ Disch.

as local

B

α-lab < CBC, Hb%, ESR
Tumour markers مؤال

1] Antigens — CA₁₂₅ epith.

2] Enzymes — LDH الكبد ALP trans dysgerminoma

3] Hormones — • β-HCG, α-FP germ
• estrogen, andr. funct.
• T_{3,4}, 5 HT monodermal

α-scan

α-scope: laparoscopy < staging
2nd look x
chemotherapy

α-biopsy

- aspiration from ! cyst
- ! definitive biopsy is by ?!
mid line exploratory laparotomy
(Blotky = staging - Surgery)

DATA suggestive of Malignancy مؤال

• Age extremes < v. young: dysgerminoma
v. old: Epith. Tumors

• General cachexia

• Abd Ascites, omental cake
enlarged liver, parast. & N.

• Local Bilat., fixed, tender
Rapid growth.
Nodules in D. pouch

• Inv. ↑ ESR > 100
• +ve < markers
cytology
• Doppler → high velocity

• Intra-op.
as abd. & local ⊕ Papillae on outer surface
areas of hge & necrosis
large v_s on ! surface

C

acute abdomen → ALL → laparotomy

T acute: gangrene } adnexectomy but
chronic: parasitic } don't untwist ! pedicle

R Papillary: spread of papillae infected
mucinous: P. myxoma hge
dermoid: chem. Peritonitis malig. spread

H → acute abd. ⊕ shock ⊕ rapid ↑ in size

I infection: antibiotics ⊕ deroofting

incarceration: impaction in ! pelvis → pr.

Malign.?! مؤال (Data suggestive of malign)

Pressure manif.

Pregnancy:- أثمر حاجة مع الحمل الادرمان

→ 1st trim. may be C.I. of preg. (esp. if < 6cm)
→ 2nd Laparotomy (esp. if > 6-8 cm)
→ 3rd technical difficulty
→ labor VD if no obst: laparotomy within a week

Vulval Dysplasia

VIV

20-30 yrs

Invasive (4%)

60-70 yrs

Abnormality of the vulval skin growth

Etiology

- Chronic irritation
- Autoimmune/met. dis. eg DM, achlorohydrin
- Local factors: chloanes \rightarrow skin \rightarrow brown
- Nutritional def. eg Fe, folie, B-complex
- Environmental & familial

Control

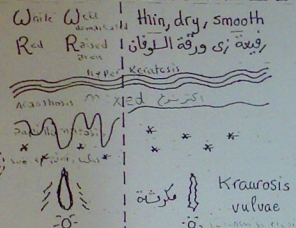
Skin

irritation

Path

Sq. cell hyperplasia (Leukoplakia)

Atrophic (lichen sclerosis)

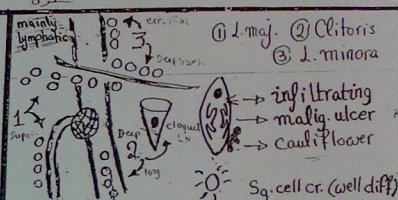


* Squamous VIN $\frac{I}{II}$

- Postmenop (HPV -ve) ... unifocal [Bowen's dis.]
- Premenop. (HPV +ve) ... multifocal

* Non-squamous

- Paget (adenocr. in situ) \leftrightarrow Paget disease of Breast (milk line)
- Melanoma (5%)



	T	N	M
I	T ₁ < 2cm	No	M ₀
II	T ₂ > 2cm	No	M ₀
III	T ₃ --- spread to ---	N ₁	M ₀
IV	T ₄ --- spread to ---	N ₂	M ₁

Sympt

Asymptomatic Pruritis vulvae < scratch 2/3 inf. dyspareunia \oplus Bleeding, discharge

Signs

Change in color < white pigmented change in texture (flat, raised) \oplus Mac. path. < mass ulcer L.N.

Inv

1 Etiology < Sabab \rightarrow G.T.T. \rightarrow DM, HT, etc.

2 Diagnosis \rightarrow Colposcope \rightarrow acetic acid 3-5% \rightarrow toluidine blue 1% Superficial stain

3 Comp. biopsy (definitive) \oplus Preoperative Spread.

Trt

1. Symptomatic \pm !pdf
 local
 - hydrocortisone 1%
 - clotbetasol 0.05%
 follow up
 - Colposcope
 - Acetic acid
 - toluidine blue

2. Young
 Localized \rightarrow local dest. 5% FLU, Laser, cryo
 Multifocal \rightarrow Skinning vulvectomy
 2/3 multifocal
 25% recurrence \rightarrow ...

3. Old
 Localized \rightarrow wide local excision with safety margin
 Multifocal \rightarrow Simple vulvectomy (exp. for Paget)
 Surgery \rightarrow Radical vulvectomy
 Radiation \rightarrow adjuvant (postop) \rightarrow curative (min. role)
 1N \rightarrow 1 or Cloquet
 tumor \rightarrow 4 or Clitoris
 prognosis: Clitoris? (very vascular)

(Acc. to cyclicty)

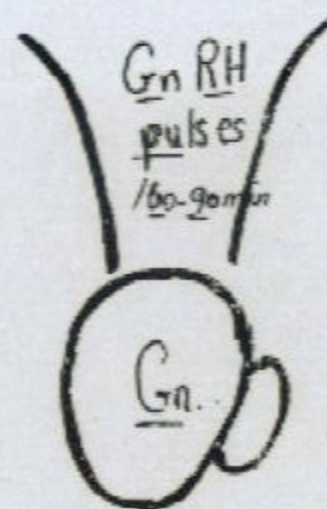
① cyclic ← menorrhagia
Poly menorrhagia
الإفراط في النزف

② acyclic ← Metro
meno-metro
intermenstr

(Acc. to hormones)

① Withdrawal
e.g. Normal menses

② Breakthrough
↓ ↓ ↓



(Acc. to pattern)

- | | Local | syst. | funct. |
|---------------------|----------------|----------------|------------|
| 1. Meno | cong. int. | أي علة | ovular |
| 2. Poly | cong. in ov. | | |
| 3. Metro | tumors, ulcers | الأدوية
Coc | → anovular |
| 4. contact bleeding | Cx - Vag. | inf. tumor | |

(Acc. to age)

- Neonate: birth crisis
- childhood: F.B., prec. pub.
- Puberty: DUB, coagulopathy
- CBP: الحمل + مقلد مع انقطاع
- Menopause: DUB, fibroid
- Post mep: cr. endomet.

- + ! most Common ← Fibroid
- + ! most Serious ← Malign.

Assessed by

1 History

- Age ←
- marital status ←
- H.P.I
- (E.P) → Pain, bl., infect.
- (P.C.O) → S.O.H.A
- (Prolep) → something protruding
- (P.I.D) → Fever + pain + disch.
- Menst → cyclic
acyclic
- obst. if recent TOP → chorioc.
- Contr. → horm. / لولبي
- Post. → general cause

2 Exam.

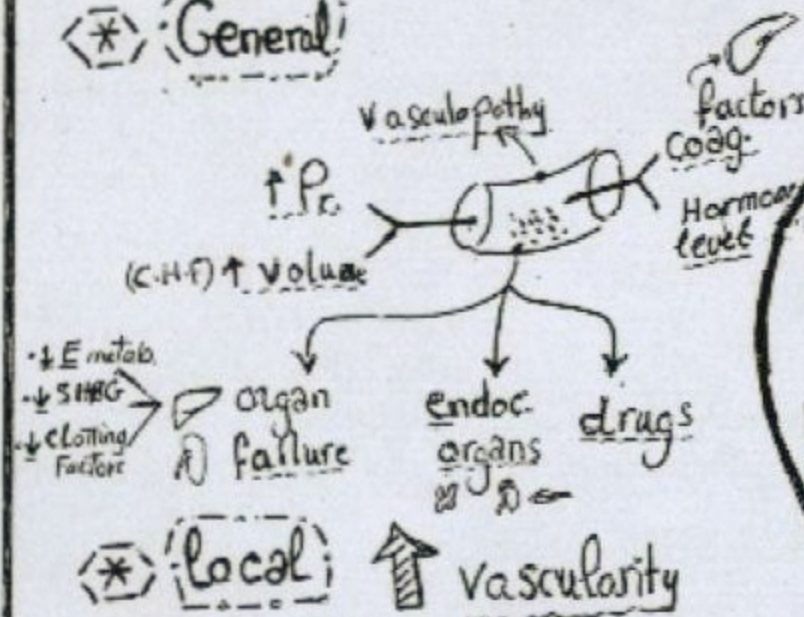
- General ← درجة الوعي
dis. أي
metabol
- Abd. → swelling (مفرد)
- Local ← PV
PR

3 Inv.

- Lab → CBC, T. markers, LFTs
- Scan → US
- scope biopsy → D&C.

Organic

(*) General



(*) Local ↑ Vascularity

• Pregnant ← early
APHge
APHge

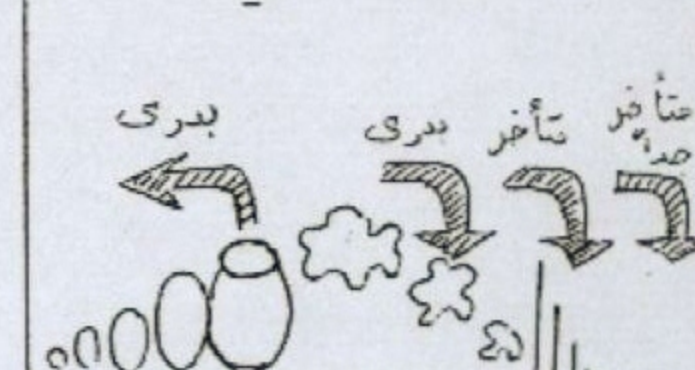
• Pelvic path.

- Cong: double uterus
- trauma: obst. - Surgical - Direct (IUCD)
- Infection: نوب
مفرد
- Tumors: كلى
endometriosis
- Miscell: كلى
Displacement → Prolapse
chronic inv. RVF

• Intact H.P.O. Axis
• Well Balanced PGs
on BLVr.

(Cyclic : Ovular)

مشكلة في التوقيت

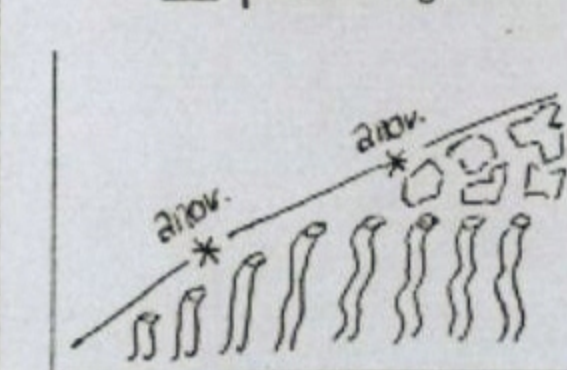


- Poly menorrhagia → frequent cycles
- irreg. ripening → Premenstr. spotting (C&I) → menorrhagia
- irreg. shedding → Postm. spotting
- Persistent C.I. → am. pain, bi.

- if she doesn't want preg.
1) Prog. in 1st half } C.O.C.
2) E. followed by Pr. } is easier
- if she is also infertile
1) Clomid / FSH } ART
2) HCG / dH } failed

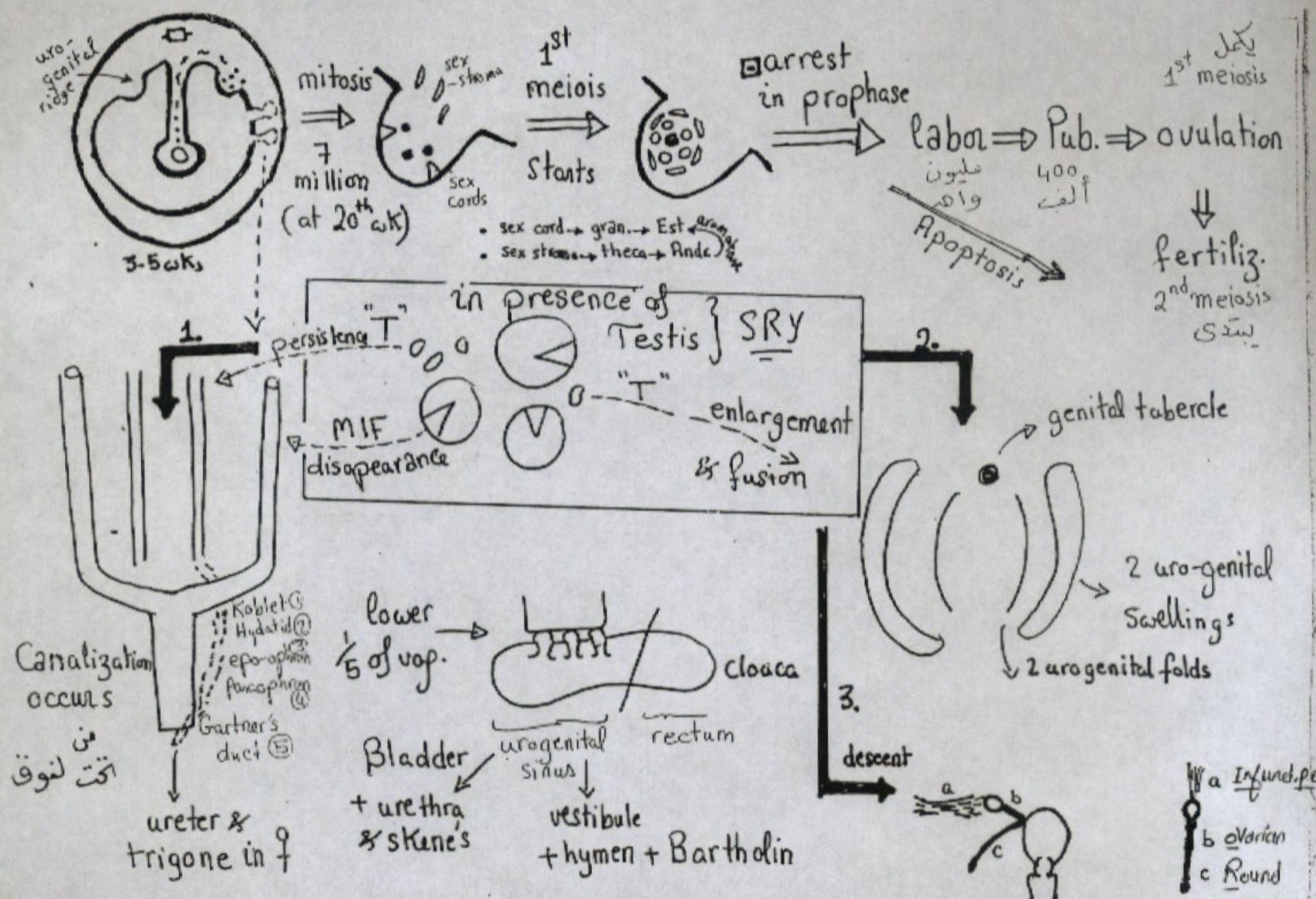
(Acyclic : Anovular)

Metropathia Hgica



- short period of amen. → PPI → Painless, Prolonged Irregular
- TVUS → large uterus
follicular cyst
- D&C → prolifer. / hyperpl.
no sec. changes

- ① Drugs → Fe, daf, lon
لو فلتت
للعلاج → Prog. C.C. Androgen
GnRH cont.
للحالة → induction of ov.
- ② D&C → diag. therap.
- ③ Hyst. → البزل hysteroscopic ablation



Anomalies

	Body	cx.
• EU	1	5
• Labor	1	2
• Puberty	1	1
• Adult	2	1

② Fusion defects

1. uterus di-delphus
2. Bicornus bicollis
3. Bicornus unicollis
4. septate & sub-septate
5. Arcuate (cordiformis)
6. Unicornuate
7. Rudimentary horn

gyna

obst

- asympt.
- sp. dysm.
- menorrhagia
- early habit. ab. (septate)
- late ectopic (Rud Horn)
- labor obstructed
- P. accreta

(Abn. structure)
(X mitochr.)

- associated
- urinary anomalies 30%
- skeletal ~ 15%

③ Aplasia

1. uterine sound
2. U/S
3. HSG (saline-sonohyster)
4. hysteroscope
5. laparoscope

① Hypoplasia

- Rudimentary: uterine sound
- infantile 1:2
- Pubescent 1:1

- cervical atresia → Cryptomenorrhea
- Patulous int. os → habitual aborts
- cong. elongation of portio-vag. → P.P. prolapse

① Imperforate hymen

② 1st Vaginal Septum

Mullerian agenesis

Frank method

surgery

vagina

abd. colon vaginoplasty

laparoscop... Vachetti

McIndoe

Williams

cryptomenorrhea

1st presentation: retention of urine

ttt: emergency cruciate incision

ectopic infertility

aplasia

dysplasia

"Turner"

Accessory ovary

Abnormal descent x

إليه أُنْجِبُ، ال
prognosis
😊

Def.

Funct. end. glands & stroma outside the endomet. cavity

extra-Pelvic

Pelvic

Th

Prophyl. < Pregnant Progesterins

Etiology

↑ E age 30-40 parity low race Caucasian

- Halban (lymphatic) nose lung
- Meyer (metaplasia) g. bladder appendix
- Sampson (immunolog. error)

Pathology

extra. intrat. EØ adenomyosis = Cullen diverticul.

C/P

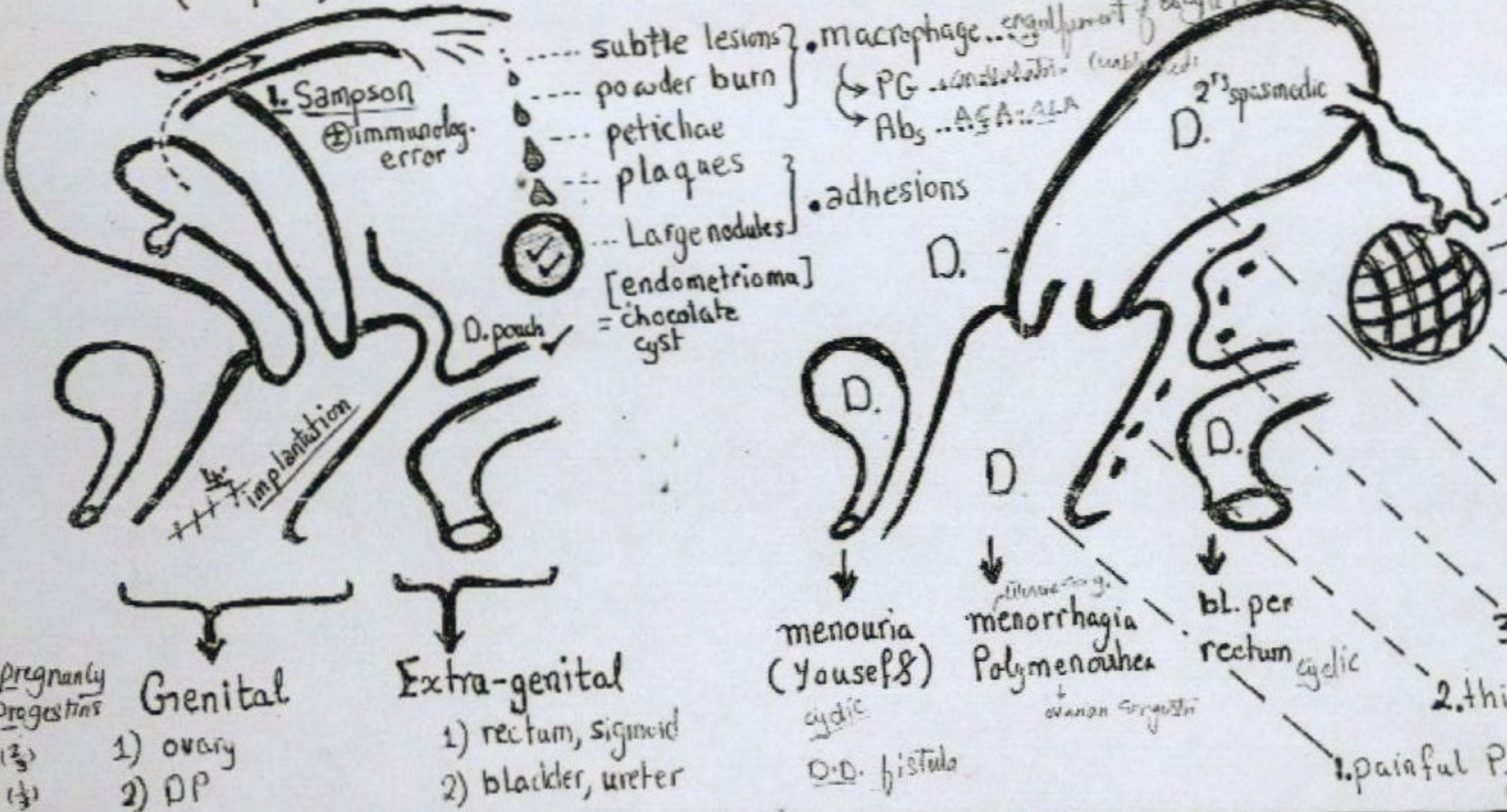
Triad Pain Bl. infert.

acute abd? ectopic? habit? abortion Rupture of chocolate cyst

Inv.

- CA125 --- Follow up
- U/S --- gross lesions.
- Laparoscopy < diagnostic (biopsy) therapeutic

EØ size mic <1cm 1-3 >3
adhesions no filmy Partial complete obliteration of DP.



Genital
1) ovary
2) DP

Extra-genital
1) rectum, sigmoid
2) bladder, ureter

menouria (Yousef & cyclic)
D.O. fistula

menorrhagia Polymenorrhea
ovarian cysts

bl. per rectum cyclic

1. painful P.V.
2. thickened R.V. septum
3. Nodules in D.P.
4. fixed RVF
5. adnexal swelling

Min. I	Mild II	Moderate III	Severe IV

- Tender Thickened
- Fixed Nodular
- 1) Frozen pelvis P.O. T.B. Cr. ovary Multiple laparotomies
- 2) Choc. cyst T.O.P. Endometrioid Cr. ovary
- 3) Symet. & asymet. enlarg. of ut.

Active

(Est. 8-12)

- given min. for 6-9 m. weak synthetic androgens

Zoladex S.C. = Decapeptyl / 28 d.

1 Progesterone

- Given by cont. manner 9-12 m → pseudo → atrophy decidua
- efficacy known by occurrence of amenorrhea
- DMPA 150mg/m } 1st choice
- Provera 30mg/d. } 2nd
- COC (prog. dom.)

2 Danazol

200-400-800 mg/d.

3 Dimetriose

1-25-2.5mg twice weekly

4 LHRH

Cont. manner

Side effects
↓ SHBG... ↑ free androgen [1]
O -ve --- menop. symp [2]
O -ve --- liver dysfunc. [3]
Reversible E.C. 'Voice'

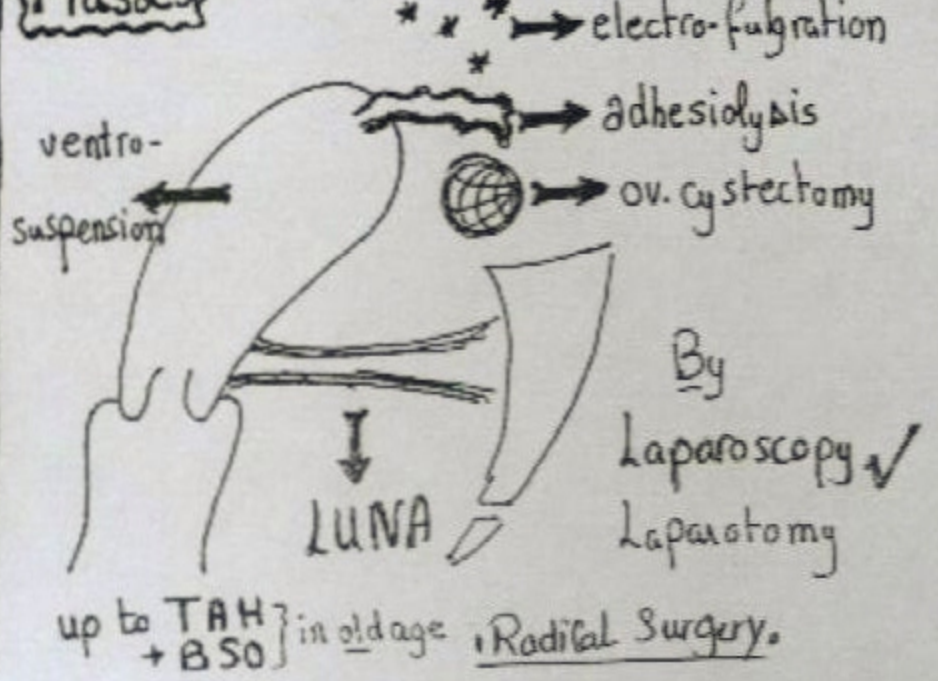
pseudo menop
Add-back therapy to avoid osteoporosis (minimal dose of E, P)

Triad

- Pain --- anti-prostaglandins
- Bleeding < Progest. واحة COC
- infertility
- a) if no masses ... induction of ov.
- b) if there is mass ... remove it 1st then induce
- زمان كان فيه حاجة اسهل
- Hormone suppression قبل وبعد العملية

Masses

Conservative surgery → Fertility



Path

SSSS
NM
CCC

Site

1. Corporeal 95%
 - interstitial
 - subserous } pedunculated polyps
 - submucous
2. Cervical 4%
3. extrauterine 1%

Supply

1. Capsule
 - center less vasc.
 - periphery ... more vasc.
2. Pedicle
 - tip ... less vasc.

Shape

spherical

Size

mic. up to v. huge

No

solitary or multiple

Mic.

smooth ms + fibrous tissue

Cut section

whorly pattern
surround. = compressed tissues

Caps.

pseudo. = compressed tissues

Consist. → firm

* hard Ca^{++}
* soft → deg. malign. (v. soft) preg.

Comp

1 Degeneration

near menop. usually all will loose (wholly ap sensitivity)
 • Fatty change
 • Ca^{++} = womb stone
 • Hyaline (myx.)
 • Pseudo-cystic
 • Red deg. في الحبل
 → hypercog. Pain, vomit, fever
 → conserve never surgery
 • Atrophy في الحبل
 → menop. exact Ca^{++} HRT malign.

2 Torsion

acute: gangrene
chronic: parasitic f.

3 Infl.

tip of sub. mucous/serous

4 Malign. 0.5%

Growth rapid post-menop.
 Tumor ... painful, fixed
 Biopsy mac. v. soft br. like
 mic. > 10 MF/HPF

C/P

ABCDE
3P

A Bleeding

* menorrhagia
 - ↑ red vasc. size
 - end. hyperp.
 * metrorrhagia
 - ulcerated polyp.
 - cancer end.
 * Polymenorrhea

Comp. (infert.)

* functional H. disturbance
 * Anatomical
 • tubes
 • uterus
 • cx

Disch.

leucorrhoea
 Congestion
 infected
 ulcerated tip

Enlarg.

sign
 مكان
 Symet.
 asymet.

Pr.

cx.

Pain

sp. dysm.
 مفرط
 sub-mucous
 Acute torsion infl.

Preg.

* Preg. early: ab, ectopic
 late: malpresent. PT 2
 - pr. & pain
 * Part. 1st ... prolonged
 2nd ... obstructed
 3rd ... retained
 * Poup S3

Ht

acc. to
 • Age
 • bleeding
 • size

No

if acc. discovered in Young or Menop. no sympt.

Mild

bl. small size
 • iron
 • est
 Preg. dazool/dimet LH-Rh

Severe

1 Polypectomy
 - twist several times
 - followed by DxC
 - could be done by hysterosc. laparosc.

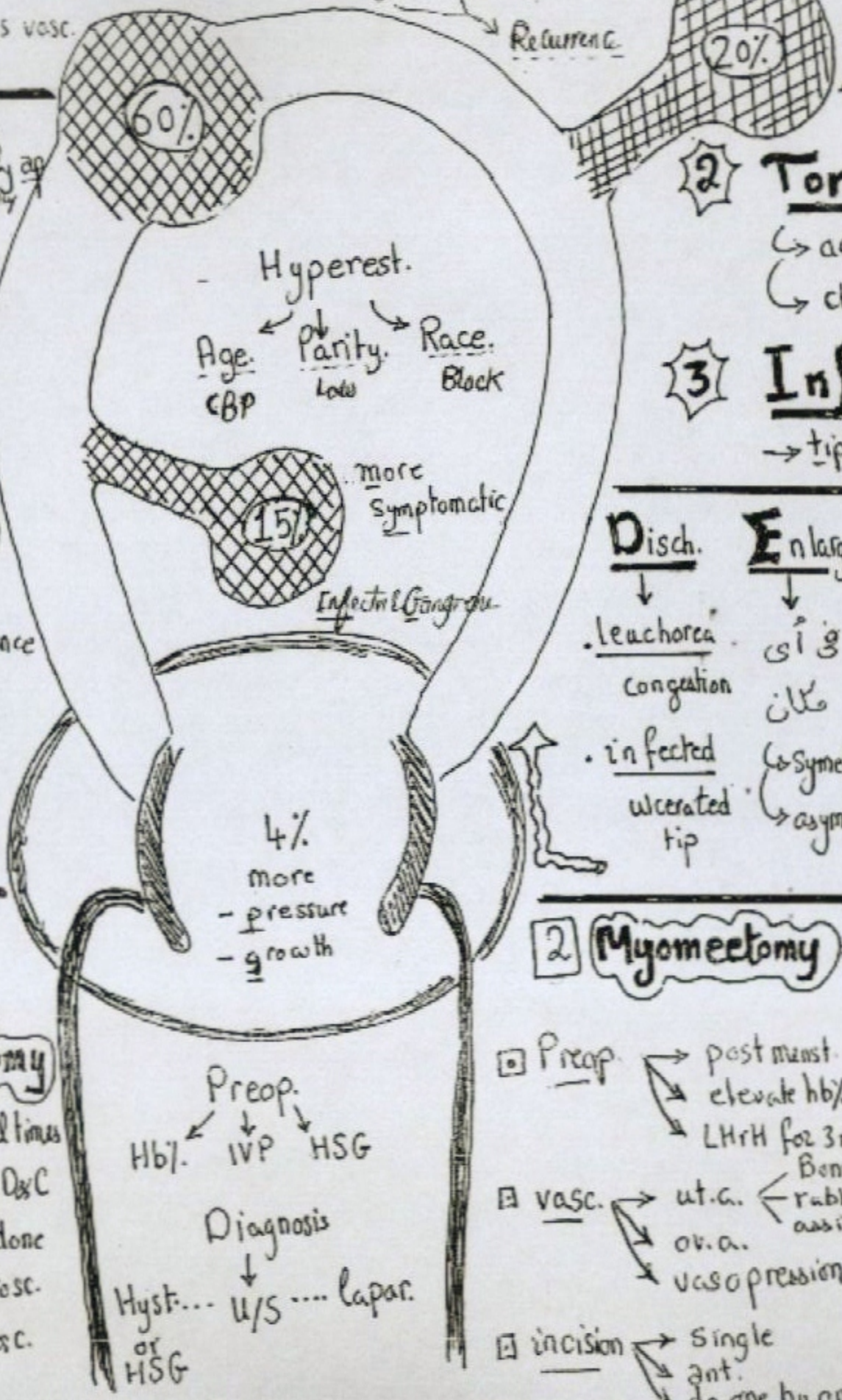
Preop. Hb% IVP HSG
 Diagnosis
 Hyst... U/S lapar. or HSG

2 Myomectomy

infert. severe bleed. large > 12 wks
 Preop. post must. elevate hb% LHRH for 3m. Bonney clamp. rubber catheter assistant hand.
 vasc. ut. a. ov. a. vasopression
 incision single ant. do one by one

3 Hysterectomy

old age completed family
 fibroid cx. br. lig.
 malign. end. cr. leiomyosar.
 myomectomy bleeding recurrent multiple



- ETIOLOGY**
- (1) Congenital (during division of uro-genital sinus)
 (2) Direct Fracture pelvis, Falling astride, F.B. retained, Defloratn injury
Surgical vag. abd.
Obst direct indirect
 (3) Inflam. non-specific, Chr. gran. dis. T.B.
 (4) Neop. e.g. cr. ex
 (5) Irrad. EAO, Pedicle graft

Sympt.
 - Incontinence & True Paradox
 - Severe pain
 - Recurrent U.T.I

anemia
 uremia
 Bad g. condition
 tender loin pain

General
Abd

Psychological deprivation
 scar of previous op.

1 Preop

2 Diagnosis

CBC
 urine C&S?
 IVP, RFT

EUA + methylene blue test
 cystoscopy
 chromocystoscopy

Inv.

Diagn. 2

Preop. 1

Ba enema
 Charcoal
 proctoscopy

CBC...
 + Flagyl
 (3-5 days)

2 Operative

من تحت (فشل)

Dedoublement (flap splitting)

- Separate bl. & vag.
- Excise 1 fistula
- Close both walls separately

Saucerization (Sim's)

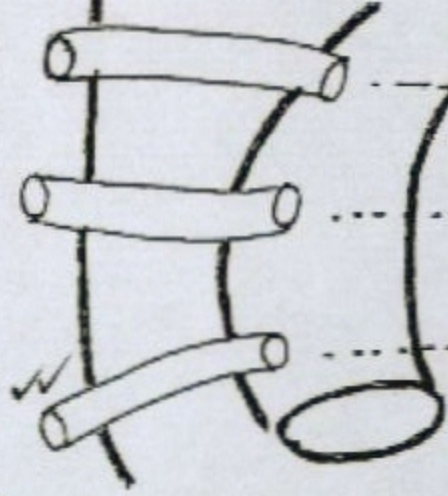
- Elliptical incision
- Excise 1 fistula (fibrotic)
- Close as a single layer

Latzko (partial upper colpectomy)

- if vault fistula. → Hysterectomy



Vag.



Colostomy

Dedoublement

small: Vernon David
 large: turn it into Complete Perineal T-tail
 Lawson tail
 Anatomical Repair layers

3 Post op.

صحة شغري

- No I.C. 2-3 mo
- No Preg 2-3 y.

For healing: catheter

Ab. 10-14d... Left for
 Acidification barrier
 3.A... care by
 2.h... checked every

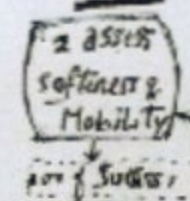
regain! Blood tone (intermittent clamps) removed by gradually

C/O

- True incont. (Paradoxical if High small Verruca)
- UTI (recurrent)

O/E

- see it?
- feel it?
- move it?



Sim's position
 نائمة على جنبها الشمال
 Metal click test
 لا يعمل: أي كلام

- Inflammation ±
- Excoriation
- Soreness

- Offensive disch.
- evidence of p. tear

C/O

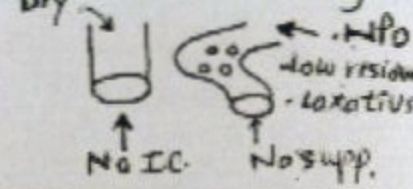
- incont. of flatus (stools if diarrhea)

O/E

- see it
- feel it
- move it

Postop. 3

- No IC 2-3 mo
- No preg 2-3 y.
- For healing



4 Failure

في فشل

5 Prophylaxis

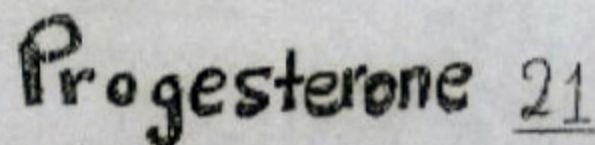
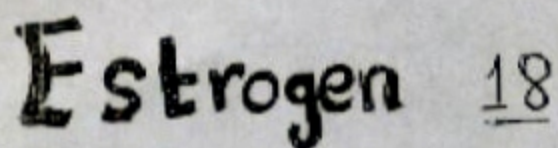
- good obst. & surg. care
- leave a catheter & proper bl. dissection

Failure 4

في فشل في

Prophylaxis 5

proper manag. of perin. tear & Labor



عبدال est. EQ.
 أي مرضي لا يج عن End.
 Hyper-est. End.

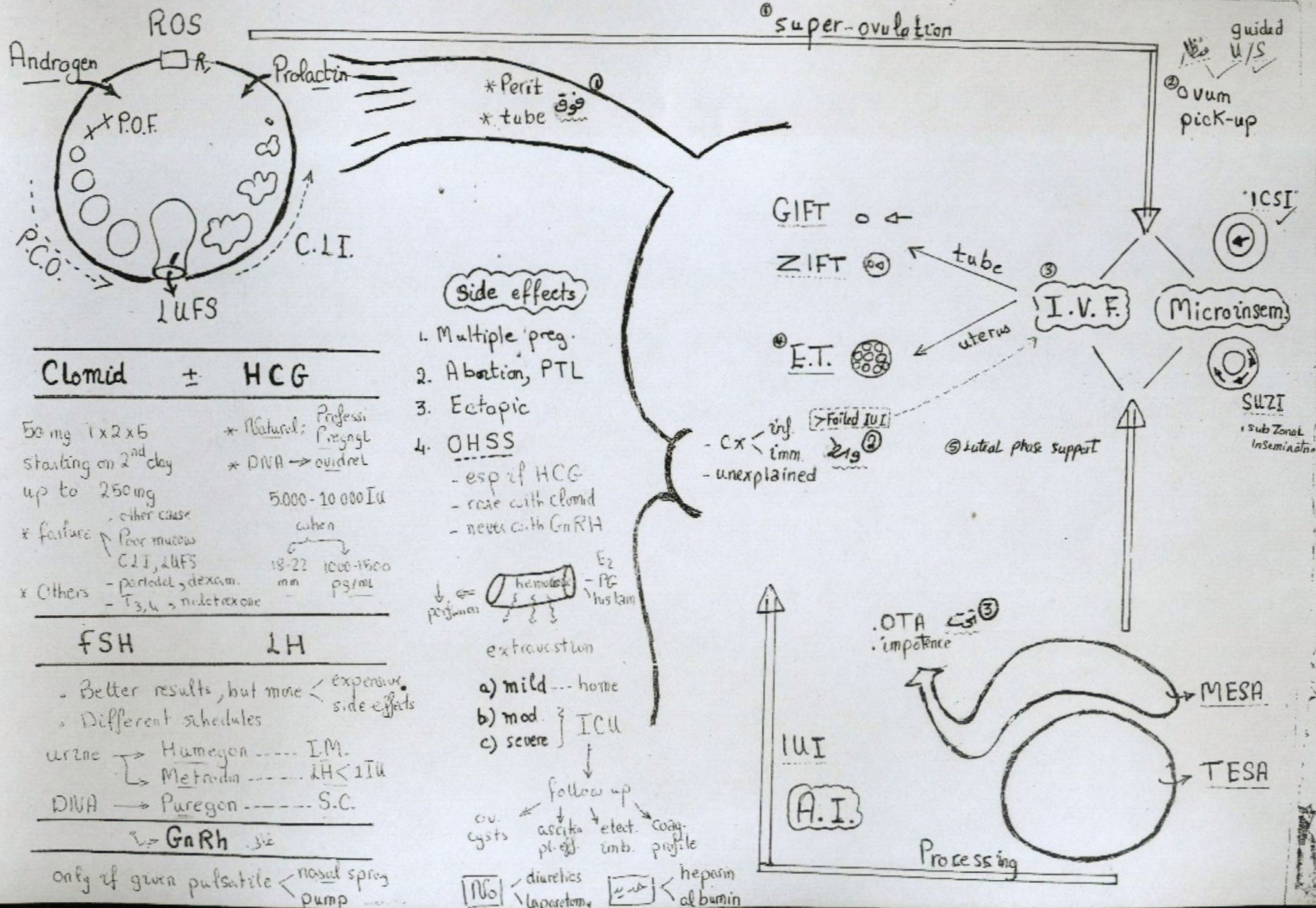
2.9.
EQ
End.
End.

1 Etiology

2 Assessment

3 ttt

Cong.	Tr.	Inf.	Neop.	Misc.	History	Invest.	ART آخر حل لوفشلنا
I H.P. failure	II H.P. dysfunction ✓✓(PCO)	III ovarian failure	Others • Prolactin↑ • androgen↑ • CLI • LUFS		disch. pain spotting E mid-cyc. C.I. ⇒ Regular sp. dysm. P.M.T. ± genital endoc. am... PPI black ± general endoc. galactorrhea hirsutism أعراض أي غدة	folliculometry laparosc. G. T. L. Prog. ✓ 2H 5th-7th Prog. ✓	{induction of ovulation} PEB Spinbarkei Fern vaginal cytology
-hypoplasia -diverticul. -ostrium	surgery on near	PID 2ry ✓	stretching tube fib. ov. cyst	EO < Anatomy function	• Previous surgery • PID < fever abd. pain discharge • EO < Pain 6D bleeding infertility	laparoscope Tuboscope T. cannulation 5th-7th insuffl. HSG HyleSy	• Tuboplasty laparosc. lapast. hys • EO < ind. of surgery
• Mullerian agenesis • TFS	Ascherman		fibroid	displacement	• previous surgery < D&C C.S. • fibroid (ABCDE PPP) • postpartum < hgc (sheehan) inf. (Ascherman)	1- Uterine Sound 4- Hyst. Scope 2- U/S 5- HyleSy 3- HSG 6- PEP	Surgery
Atresia	• cauterization • amputation • cone biopsy	Chronic Cervicitis	Polyp	Poor ex mucous 1. wrong time surgery 2. gland < clomid 3. infection 4. imm unolog.	• Purulent discharge • Low back-ache • deep dyspareunia	mid-cycle N. Semen PCT mucous: Mognisi sperm: 5-20 forward if -ve → sperm penetration slide tube	• inf. → Antib caute. • Imm. → cstd • Poor → E
Septum	surgery scarring	hostile sec.	rare	Abs < agglutin. immobiliz.	sexual H. < dyspareunia frequency use of lubricant	semen Azo OTA C&S imm. assay	impotence - Psychotherapy - Surg. Correcti
Hypospadias Epispadias	spinal surg. retrograde ej.	DM		• impotence • premature ejac.	• DM • anti < hypert. depressants → urethral disch. → previous surg.	Test. biopsy +ve -ve obst. FSH failure Karyotyp CT brain	OTA antibiotics mucolytics steroids ↓ AIH (if failure)
- Cong. abs. vaa - cystic fibrosis - Kartagener	surgery (Hernia)	• epididymitis • Prostatitis ✓	rare				
• Sertoli cell only synd. • undesc. T.	• Direct Thermal irradiation	Mumps	rare	2ry test. failure (Low FSH)	• cytotoxic drugs • irradiation • anti < fungal malarial		



Embryology → Products

→ Ovarian tumors

[Depends on Origin]

• They can produce any cell in body

• they've good memory

Neoplastic

1st 2nd (20%)
"Krukenberg uterine"

3 Germ-Cell tumor (5-10%)

dysgerminoma, embryoma



• they can produce any cell in body
• V. good memory

embryonic Teratoma

extra-embryonic Chorio Cr.

* Undiff. * Poorly differ. * Well diff.

2 Sex-Cord stroma (10%)

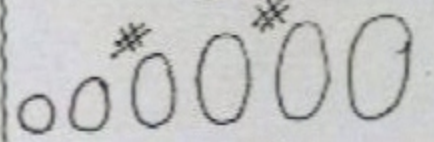
♀ • Gr. theca } gynandroblastoma
♂ • Sertoli-leydig } الإبنس مع بوي

1 Common epith. tumors (70-80%)

Serous
Endometrioid
Mucinous } Mullerian

Mesonephroid } Wolffian
Brenner benign

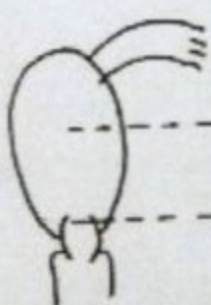
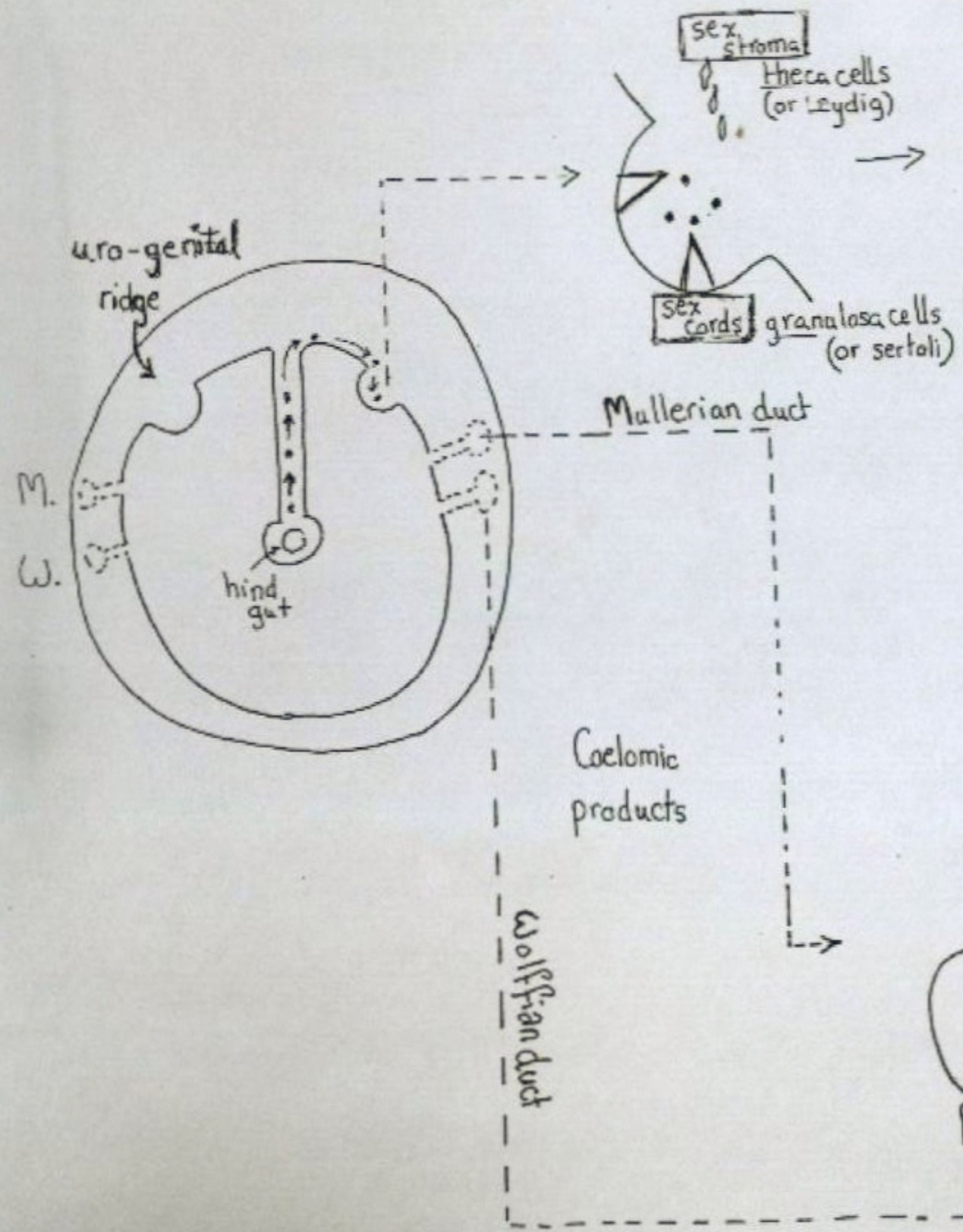
Non-neoplastic



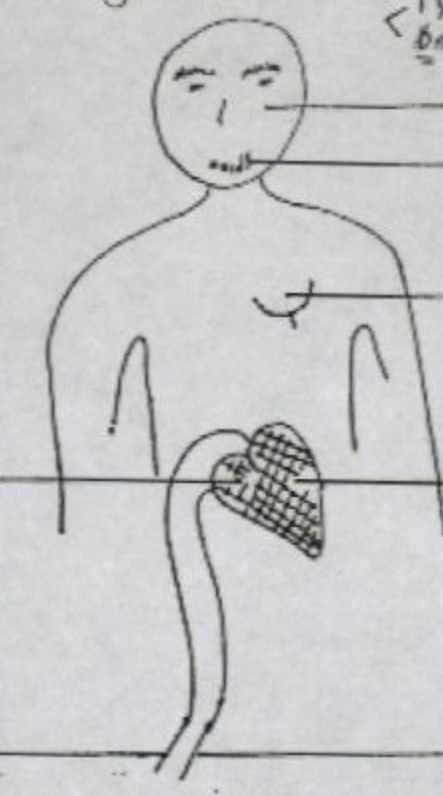
functional ov. cyst
كيسة < 6cm

PCO
EO (chocolate)
TOA

Para-ovarian cyst
Theca lutein cyst
Preg. luteoma cyst



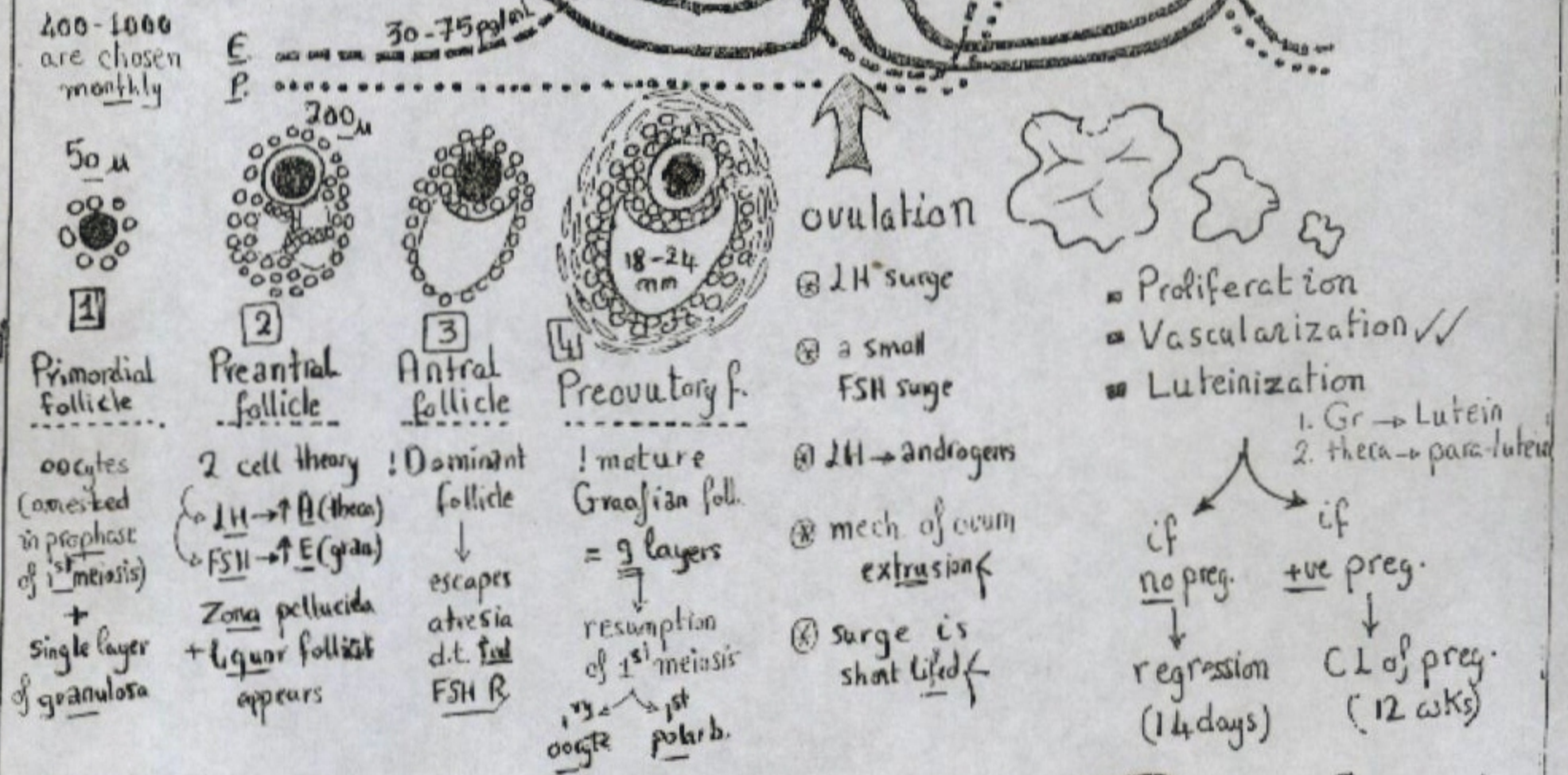
P.C. system
Wolffian duct

inv.	Menop. 45-52	Phys. changes	menop. Synd.	Effect	HRT	Drugs
	(51/41) • Permanent cessation • occurs gradually • diagnosed retro-spectively 	• sudden sense of heat • d.t. hypoth. instability • from twice/d... every 15m • disappear spont. (1-2 yrs) Hot flushes Hirsutism B. atrophy (pendulous = fatty) CVS Hormones Osteoporosis Genital	! annoying Sympt. (10%) vaso-motor symptoms skin disfigurement CHD Hypert. Psych. Rh. pain Backache Dowager's hump Discharge Dyspareunia SUI & cystitis	• WHI study • one million study ↓ 75% but... • short duration • Non Hormon. r better ↑ slightly?! acc. 2 duration ↑ significantly • DVT • myocard. infarction no proven effect ↓ 30% but... • short duration • Non Hormones r better ↓ esp. with local drugs ! only indication	Workup & start • History • Ex. (BP, TG, PV) • Inv. → sugar, mammogram, lipid profile Duration • Some... 10 yrs • some... for life • recently... max. 2 yrs Mech. of action ↓ cholest. deposition ↑ HDL, ↓ LDL However: it ↑ clotting factors ↓ antithromb. III indication ☹️ 1. menop. synd. 2. Asympt. ♀ but high risk 3. Routine for all ♀s Contraindication • relative contr. myoc. infarction • DVT • active vascul. dis. • active liver dis. • unexplained genit. bleeding	* Hormones 1 Est. only • oral: CEE 0.625-1.25 mg/d • non-oral • extra-derm • extra-gel • Premarin cr. • S.C. implant • No GIT troubles • Higher conc. < • No mut. effect < • No DVT 2 E + P • cyclic... withdrawal bl. • continuous... amenorrhea * Non - Hormones 1 SERM (tamoxifen) • +ve on... CVS & bone • -ve on... uterus & breast 2 Tibolone (livial) weak • estrogen... -ve ut. & br. • progest... no need to add it • androgen... +ve bone & lipids 3 Hot flushes (agreal) or clonidine patch phyto-estrogens 4 osteoporosis. Ca, vit D • Biphosphonate (fosamax) • Calcitonin (myacalcic) • fluoride
Lipid profile - triglycerides - cholesterol - LDL - HDL to confirm • FSH > 25-40 mIU/ml • E ₂ < 20 pg/ml • vag. cytology						
DEXA > 2.5 SD • T score (adult) • Z score (old age) • U/S • urine collagen						
Genital atrophy • atrophic endomet. • PMB • Post menop. vaginal dryness						

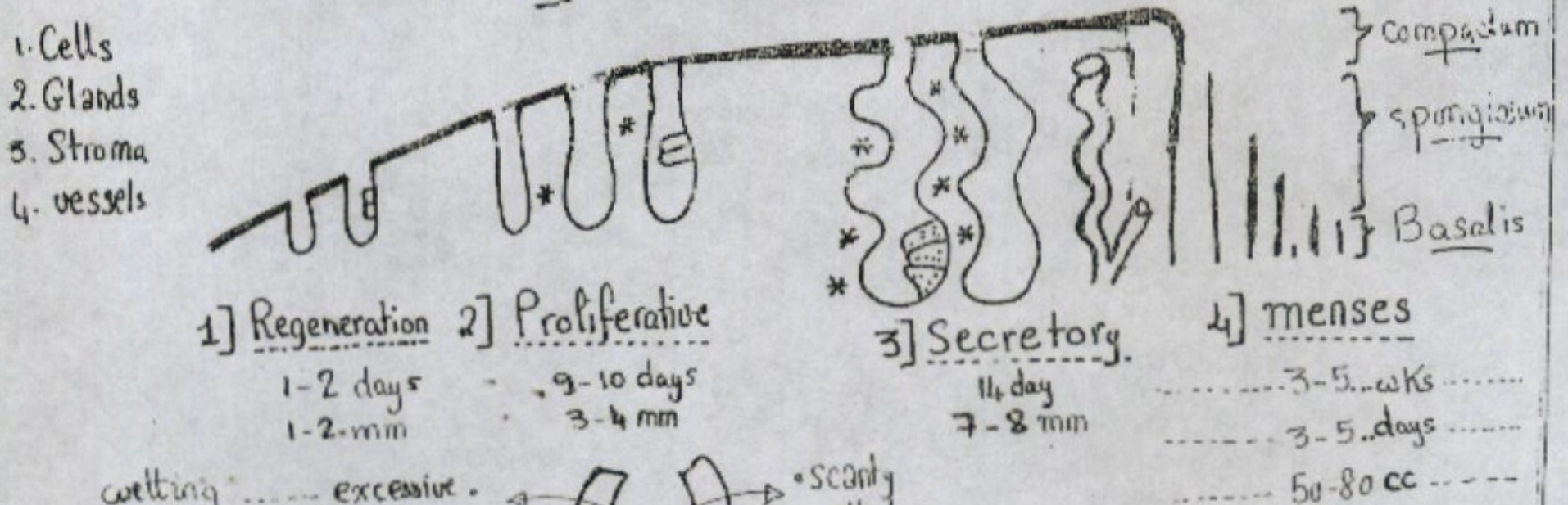
Horm.



ovary

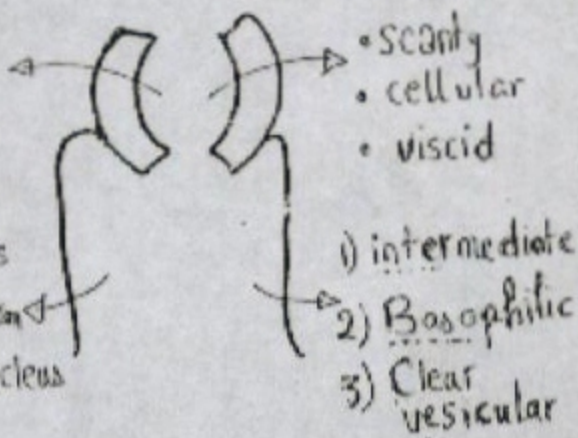


uterus



Cx.

wetting excessive
+ve Fern clear watery
+ve SpinBark stretchable



vag.

Prog. withdrawal \rightarrow \downarrow edema
 \rightarrow shrink of end \rightarrow coiling of vessels \rightarrow ischemia \rightarrow break lysosomes \rightarrow PGF₂ α
 \rightarrow more ischemia (4-24 hrs)
 \rightarrow shedding of str. $\left\{ \begin{array}{l} \text{compact} \\ \text{spong.} \end{array} \right.$

cholest 27c
 \downarrow
Progester 24c
 \downarrow
Androgen 19c
 \downarrow
Oestrogen 18c

There is -ve feedback loop
except one

↓ in Blacks
Etiology

5-10%
Downward vertical displacement

① P.d.f.

Cong. = v. up
Acquired

RVF (ut. deg.)
weak nerve bone
AVF
lig.
ms
est.
menop.

Types

1) Uterine

2) Vaginal

3) Combined

Ant. post. vault
utero-vaginal
vagina-uterine

Pathology
= kink

Sympt

urinary
SUI
sol.

Swelling

pain

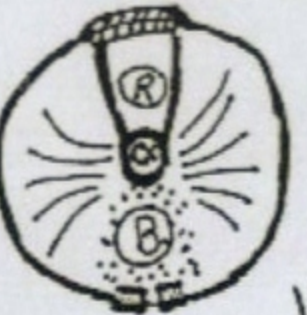
cong. sympt.

Bleeding
Discharge

In fertility

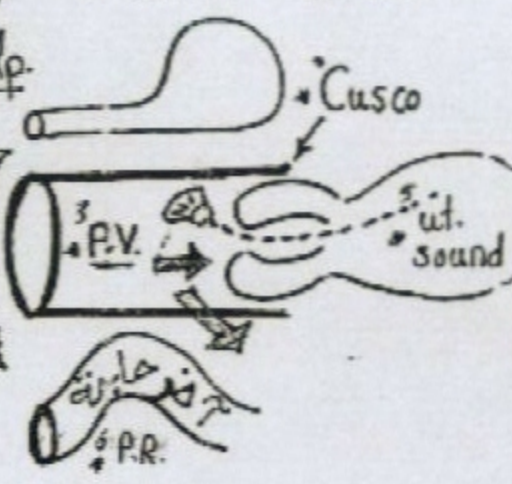
② P.P.f.

↑ abd. pr
↑ size of uterus
↑ traction on ut.



Exam

General
Abdom.
association cause result
Palp.
Type
degree
comp.
SUI

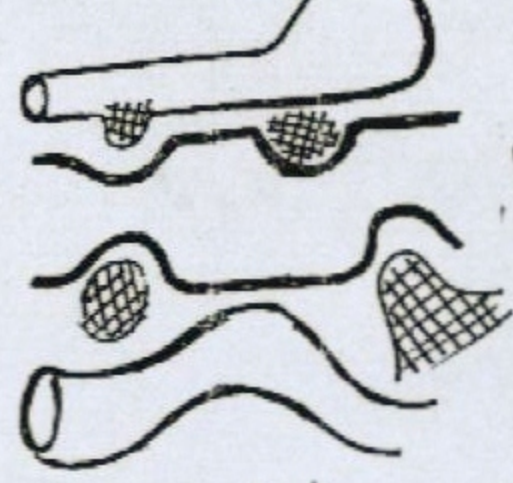


2nd

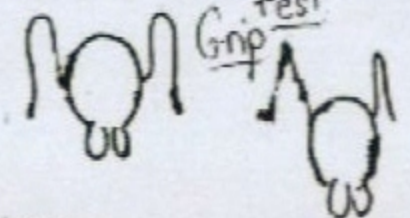
No need
Routine preop.
± urine analysis

O.D.

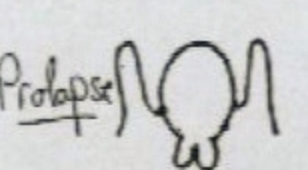
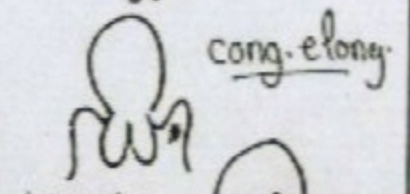
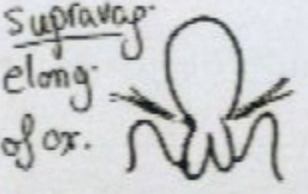
Preg.
R.V.F.
inversion
acute AVF
dextro-
Levo-



2nd



3rd



III (A) Prophylaxis

Palliative

indic. ← Contraind./refusal of surg.
Congestion (preg., perip.)
trophic ulcer

methods

① P.d.f.

② P.P.f.

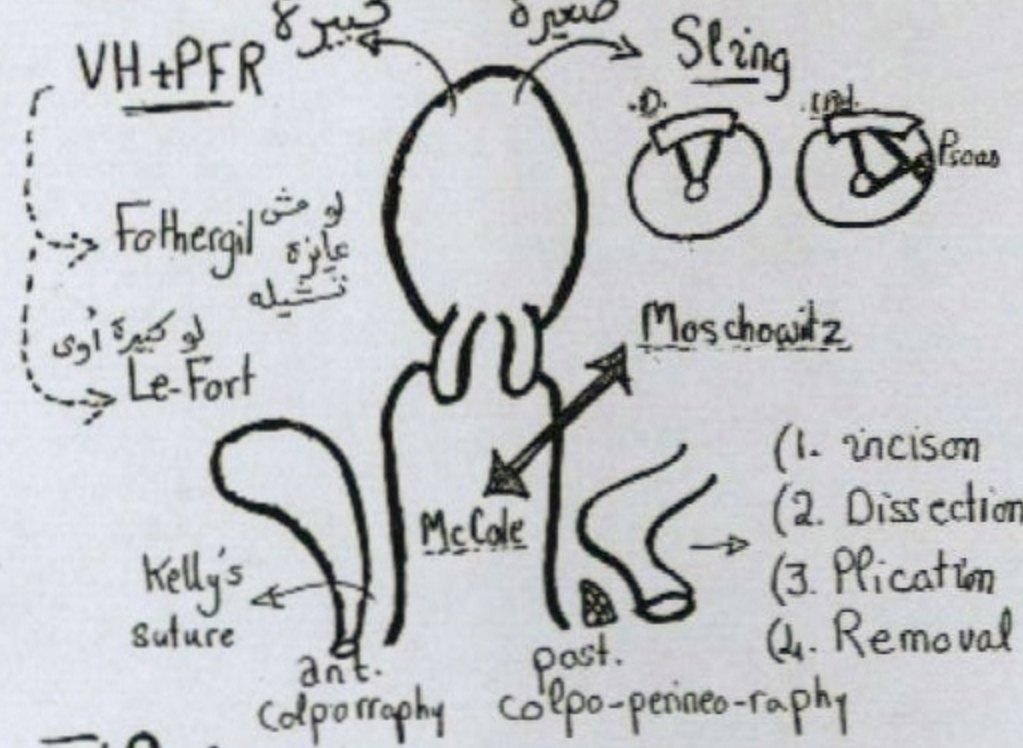
Smith Hodge
lig... pessary
ms... physioth.
est... ERT
↓ weight
↓ smoking
↓ br. asthma

Surgery

1. Preop. care

vag. ulcer
UTI
antiseptics
Premarin cream
silver nitrate paint

2. Operations



3. Postop. care

تحمل باقی؟ تولد لازای؟

4. Comp.

General
hge
inf. --- special injury

5. Recurrence 5-10%

- Preop. --- Bad
- Operative --- Bad
- Postop --- Missing

	Gonorrhea	B. vaginosis	Chlamydia	Candida	Trich. vag.	HSV II	HPV	T.B.	B.
Org.	G-ve IP 3-7 days	H. vag (Gard. vag.) - mycoplasma hum. - ureaplasma ur.	Virus bact. DNA RNA Alb	spores Hyphae mycelia Albicans, Trop, Krusi	pus cell	DNA II > I	70 serotype	Mycobacterium tuberc. > bovis	Schistosoma haemat. > manse
Pd & route of inf.	Adult... STD child... contamination Neoborn... ophthalmia neonatorum	60% of vulvo vag. (10-25% /HP) replace ment of norm. flora e.g. lact. bacillus ALK. medium	15 serotype ABC... trachoma D-K... STD Col. epith. (G) preg. ... neoborn ... male ...	(20-40%) Normal habitant (50%) acidic + humid certain media resistance loss of balance (prolonged antibiotics) alk.				Blood borne Peritoneal lymphatic Ascending with semen	through Recto-vagina - cervico plexus of veins
C/P	spread PID M.P. discharge	ositis discharge only fishy excessive greyish	itis asympt. 50% No PPdd pus cells	pre ... Menst ... post odorless Curdy white thick adherent white patches on remoxi Disch ... malodorous greenish frothy strawberry vagina Colposcope T-shaped Vc				100% ... C/P of ch. PID 50% 5% * Polyps * Tabercles * Caseation * Polypi * ulcers	rare * Polyps * Noddy patch * calcif * ulcers 100%
Inu. Ph - Smear - C - Ag. detect - S	(endocx) (rectum, pharynx) 1 st sites 2 nd sites Thayer Martin New York city Elisa CFT, HAI	1 ... 3 of 4 2 ... > 4.5 3 ... Clue cells Whif test (10% KOH) fishy odor	oil inclusion bodies MacCoy ELisa PCR Micro IFT	< 4.5 ... Ph ... > 4.5 Gram ... Fresh drop Culture Sabouraud Nickerson	eosinophilic IV inclusion bodies in multi-nucleated giant cells * culture on Choi allantoic media	vacuolated multi- nuclear cells Koilocytes Colposcopy, Pap stain biopsy	G. < Chest x-ray ESR HSG lap. Zeil Nelson Low Jensen G.P. inocul. biopsy	G. < urine stool ova Biopsy Endoscopy Claparascopy CFT	
tt	* Procaine penicillin 4-8 IM 1 gm probenecid Spectin- mycin 2-3 IM	* Rocephin (ceftriaxone) 250mg if chronic surgery 1. Barth. 2. cervicitis 3. PID Erythromy or Tetracyclin 1x 4x7 esp. if Chlamydia	Azithro mycin 1 g. single dose أي حاجة الوري (mycin)	alkaline douche Prophylaxis Drugs 1) mycostatin 2) canestan 3) Gynodaklarin Diffican Sporanox Reccurence	painful ... sympt. 2 nd inf ... Abs Anti-virals: Interferon a/vala / fam cyclovir	1) Chem. cautery Trichloro acetic acid 75% Podophyllin resin Imiquimod 2) Cryocaut, laser 3) Surg. excision	Isoniazid 5 Rifampicin 10 Ethambutol 15 * No tubal microsurgery	Biltricide (Praziquantel) Amblihar + surgical excision of vulval polyps	

Normal

- Def. 1. involunt. loss of urine
2. upon acts of det abd. pr.
3. in which vesical > ure. pr.
4. in absence of det. cont.

1. Bladder -ve
0-20

2. Post. UVA
(90-100)

3. Urethra +ve
80-100

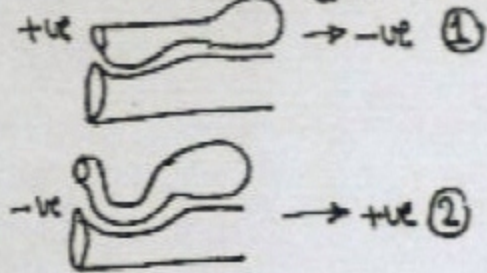
Passive
(compliance)

Active



Hammock
5. theory

Etiology



intrinsic. True
sphincteric dam. ① damage

Anatomical ② weakness
urethral hypermob.
⊕ prolapse

Invest.

electrophys.
studies

TV. US
cystoscopy
see mov. by

2 exclude
D.I. urine
analysis

confirm
it by
urodynamics

III.

ERT

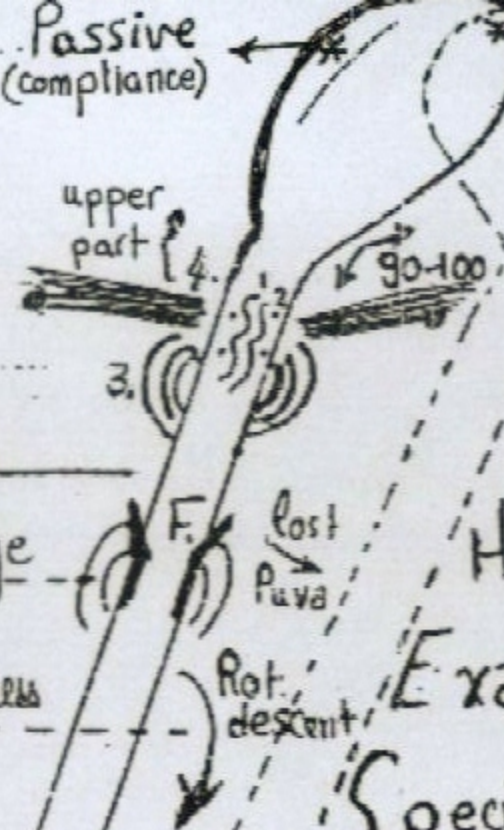
paraurethral
implants
or art. sphincter

vag. cones
vag. pessary

• Kegel's exc.
• Faradic current

Conservative ①

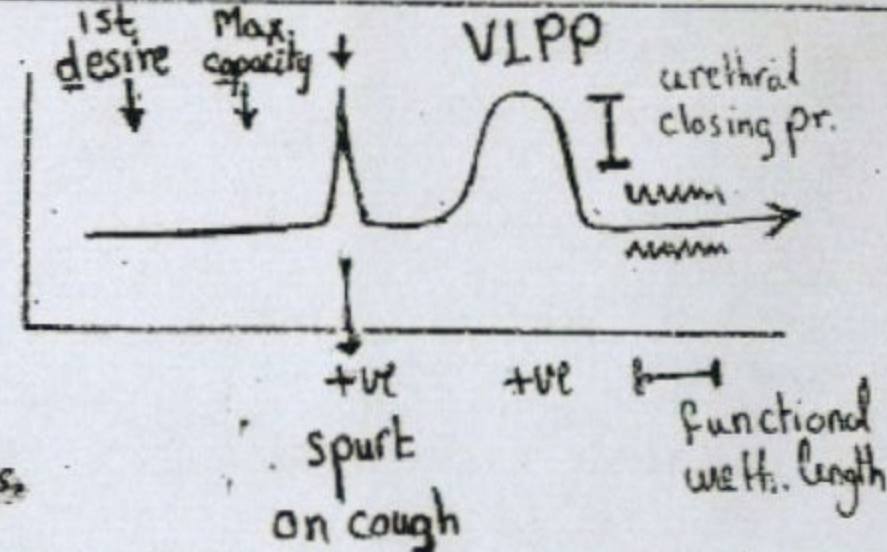
- Mild: degree
- Mixed: SUI + D.I.
- Much: Young old



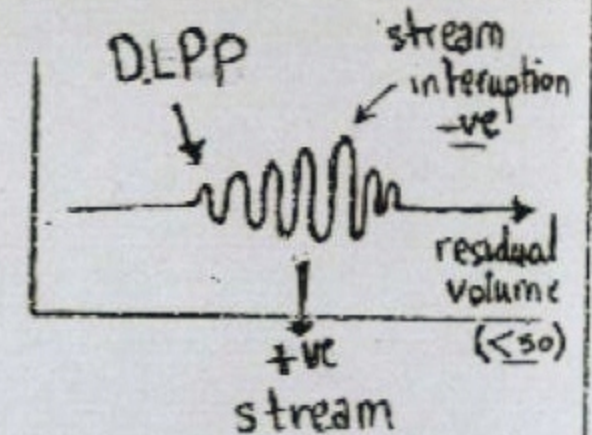
"SUI"

"DI"

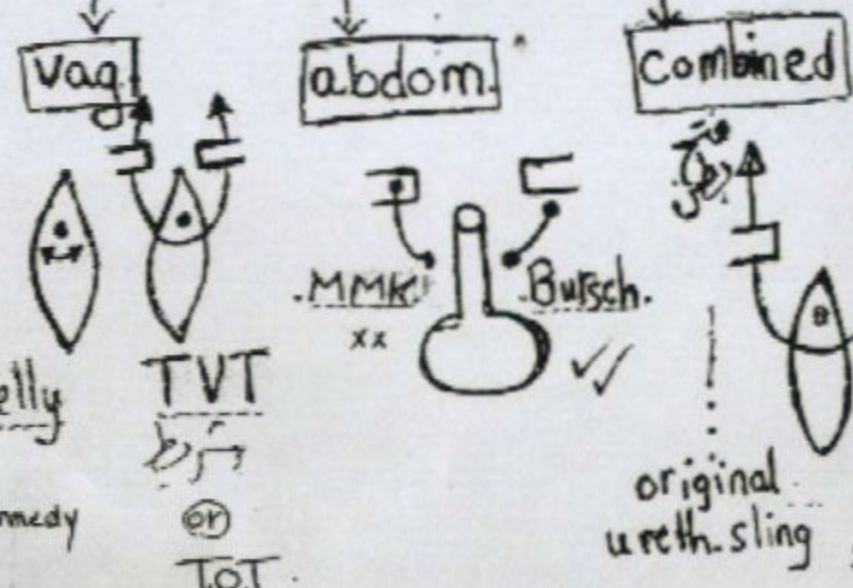
Hist. → Cough stress test → 'spurt'
Exam. → Cystocele [stream test] → +ve → Bonney
Special. → Pad, Q tip



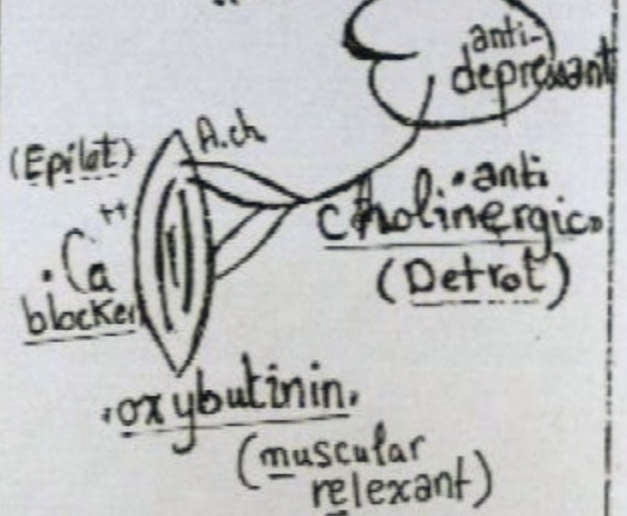
uninhibited detrusor
contraction → urgency
'stream'
few seconds after
provocation eg. cough



جراحة ②



أدوية (steering)



Etiology	Pathology	C/P	Comp.	Inu.	Treatment
<p>Sexually transmitted</p> <p>+ Gonorrhea فوق chlamydia</p> <p>HSV HPV</p> <p>+ Bact vag Candida Trichom</p> <p>Chr granu S, T.B, B</p> <p>Non-specific strept, staph E coli</p>	<p>Acute Chronic</p> <p>1. Resolve 2. Abscess 3. Recurrence</p> <p>glands r mucrose glands r in depth</p> <p>FHC2</p> <p>1. Pyosalpinx 2. Hydrosalpinx 3. SI N 4. Periovarian abscess</p> <p>Pyometra Parametritis Pelvic abscess</p> <p>hypertrophy</p> <p>Retrosion</p> <p>sexual intercourse</p> <p>operation</p> <p>abortion delivery</p>	<p>FAHM-R</p> <p>Abd pain cena Symp [pain, bl, dis]</p> <p>Major criteria</p> <p>1. abd ⊕ 2. adnex ⊕ 3. ex melon ⊕</p> <p>Minor criteria</p> <p>1. Jober ESR 2. mass 3. organisms</p> <p>History of</p> <p>recurrent acute PID</p> <p>Sympt ... infertility Tenderness TO mass/ovul Fixed RVF</p> <p>local ... intermittent purulent disch. tender swelling pushing uterus to other side tender swelling in Douglas p → pr manif.</p> <p>History ... recc cervicitis</p> <p>Sympt ... infertility + long Symp</p> <p>Local ... ⊕ ± pathology</p> <p>PP d ... red hot tender swollen</p>	<p>1) Fates</p> <p>- Resolution - abscess - Recurrence</p> <p>2) Septic focus</p> <p>3) Spread</p> <p>- local - general (as in septic ab)</p> <p>4) Infertility</p> <p>- Tubes - hostile ex</p> <p>5) If preg.</p> <p>- ectopic - choriom PROM PTL</p> <p>6) Malign?</p> <p>HPV 16/18</p>	<p>ESR, TLC, CRP</p> <p>Culture</p> <p>Diagnosis</p> <p>- U/S - Paparoscopy if - No improvement - uncertain diagnosis</p> <p>Comp (infertility)</p> <p>HSG or laparoscopy</p> <p>Etiology</p> <p>TB → chest x-ray B → biopsy Rectal Snap</p> <p>Sounding of cervix</p> <p>Pyometra</p> <p>Pelvic abscess as chr. PD</p> <p>1. Diath 2. Cryo 3. Chem L. Laser</p> <p>Surgery</p> <p>Total hysterectomy</p>	<p>Prophylaxis</p> <p>avoid sex promiscuity aseptic tech for abortion prompt ttt 23 chem</p> <p>General ... NG, AAAA, F</p> <p>Specific ... - chlamydia - gonorrhea</p> <p>Comp ... e.g. infertility</p> <p>Hospit if</p> <p>- Abs</p> <p>- Drainage by laparoscopy</p> <p>< 40yr (or infert) ↓ unilat adnex = conservative</p> <p>> 40yr (or biot) ↓ TAH + BSO = Radical Pelvic clearance</p>